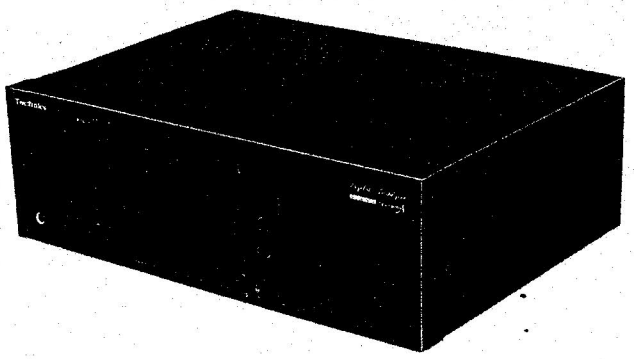
# Service Manual

Amplifier

Stereo Integrated Amplifier

# SU-X520D



**Colour**

(K) ..... Black Type

**Areas**

| Suffix for Model No. | Area | Colour |
|---|---|---|
| (E) | Europe | (K) |
| (EB) | Great Britain | |
| (EG) | Germany and Italy | |
| (GN) | Oceania | |

## ■ LINE-UP OF COMPONENTS

| System Name | Unit |
|---|---|
| **SC-X520D (E)** | ST-X902LA (E) : Tuner |
| | SU-X520D (E) : Amplifier |
| | RS-X520 (E) : Cassette Deck |
| | —— : CD Player |
| | SL-J110R (E) : Turntable |
| | SB-CS75 (E) : Speaker (Made in PAES) |
| **SC-X520D (EB)** | ST-X902LA (EB) : Tuner |
| | SU-X520D (EB) : Amplifier |
| | RS-X520 (EB) : Cassette Deck |
| | SL-PJ38A (EB) : CD Player (Made in MBV) |
| | SL-J110R (EB) : Turntable |
| | SB-CS75 (E) : Speaker (Made in PAES) |
| **SC-X520D (EF)** | ST-X902LA (EF) : Tuner (Made in PFS) |
| | SU-X520D (E) : Amplifier |
| | RS-X520 (E) : Cassette Deck |
| | SL-PJ38A (E) : CD Player (Made in MBV) |
| | SL-J110R (E) : Turntable |
| | SB-CS75 (E) : Speaker (Made in PAES) |

| System Name | Unit |
|---|---|
| **SC-X520D (EG)** | ST-X902LA (EG) : Tuner |
| | SU-X520D (EG) : Amplifier |
| | RS-X520 (EG) : Cassette Deck |
| | SL-PJ38A (EG) : CD Player (Made in MBV) |
| | SL-J110R (EG) : Turntable |
| | SB-CS75 (E) : Speaker (Made in PAES) |
| **SC-X520D (EI)** | ST-X902LA (EI) : Tuner (Made in PFS) |
| | SU-X520D (EG) : Amplifier |
| | RS-X520 (EG) : Cassette Deck |
| | SL-PJ38A (EG) : CD Player (Made in MBV) |
| | SL-J110R (EG) : Turntable |
| | SB-CS75 (E) : Speaker (Made in PAES) |
| **SC-X520D (GN)** | ST-X902LA (GN) : Tuner |
| | SU-X520D (GN) : Amplifier |
| | RS-X520 (GN) : Cassette Deck |
| | SL-PJ38 (GN) : CD Player |
| | SL-J110R (GN) : Turntable |
| | SB-CD520 (GC) : Speaker |

Technics

# CHANGES

## ■ CHANGE IN REPLACEMENT PARTS LIST

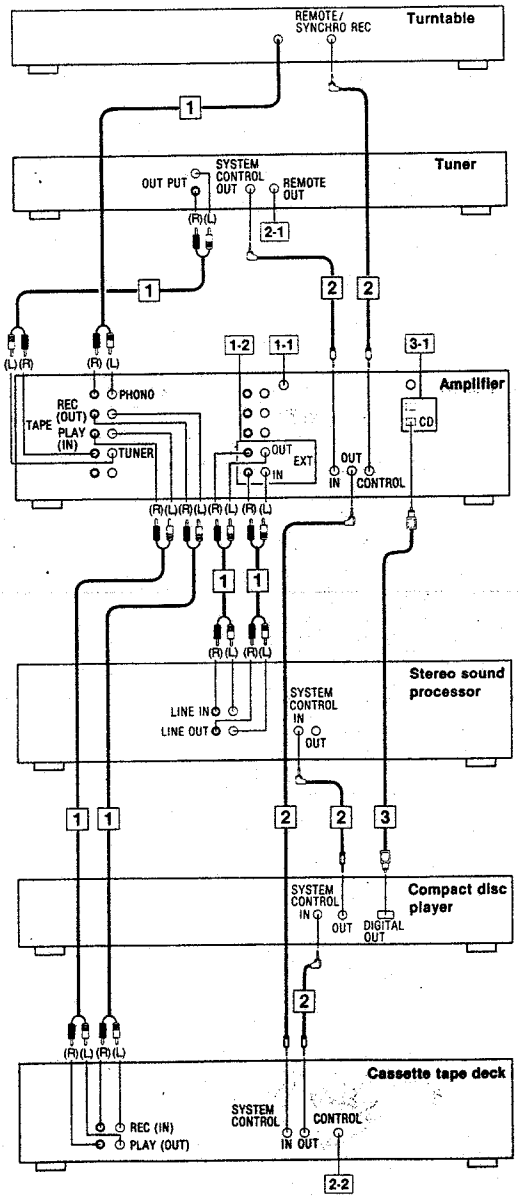
**SU-X502 (Pages 34~39, 42 of service manual.)**

| Ref. No. | Part Number | | Description | Remarks |
|---|---|---|---|---|
| | SU-X502 (E) | **SU-X520D (E, EB, EG, GN)** | | |
| TRANSFORMER(S) | | | | |
| T1 | RTP1N5E010-W | **SLT5N481-W** | POWER TRANSFORMER | ⚠ (EB, GN) |
| FUSE(S) | | | | |
| F2 | XBA2C12TB0S | **——** | FUSE | ⚠ (GN) |
| JACK(S) | | | | |
| JK902 | SJS9333B | **SJS9332B** | AC OUTLET | ⚠ (EB) |
| | | **——** | AC OUTLET | ⚠ (GN) |
| JK903 | SJS9231-1B | **SJS9234B** | AC INLET | ⚠ (GN) |
| FUSE HOLDER(S) | | | | |
| FC3,4 | SJT388 | **——** | FUSE HOLDER | ⚠ (GN) |
| CAPACITORS | | | | |
| C709 | ECEA1HKA2R2B | **ECEA1HKN2R2B** | CAPACITOR 50 V 2.2μ | |
| CABINET PARTS | | | | |
| 3 | SJP9205-2Y | **SJP9205-2T** | SHORTING PIN | |
| 5 | RGR0105C-C1 | **RGR0105Q-C** | REAR PANEL | (E) Type (A) |
| | | **RGR0105C-G2** | REAR PANEL | (E) Type (B) |
| | | **RGR0105P-B** | REAR PANEL | (EB) Type (A) |
| | | **RGR0105B-D2** | REAR PANEL | (EB) Type (B) |
| | | **RGR0105Q-D** | REAR PANEL | (EG) Type (A) |
| | | **RGR0105C-H2** | REAR PANEL | (EG) Type (B) |
| | | **RGR0105R-A** | REAR PANEL | (GN) Type (A) |
| | | **RGR0105E-A2** | REAR PANEL | (GN) Type (B) |
| 11 | RMA0138 | **RMA0138-1** | PLATE | |
| 13 | RGL0094-X | **RGL0094-C** | PANEL LIGHT | |
| 21 | RGU0474A-K | **RGU0474B-K** | BUTTON, TAPE | |
| 23 | SJS9231A | **SJS9234A** | AC INLET COVER | (GN) |
| 24 | SJS9333A | **SJS9332A** | AC OUTLET COVER | (EB) |
| | | **RJS1A4602** | AC OUTLET COVER | (GN) |
| 28 | SYE1128-2 | **REM0020-1** | FAN MOTOR ASS'Y | Type (A) |
| | | **SYE1128-4** | FAN MOTOR ASS'Y | Type (B) |
| 28-1 | SHE232 | **SHE232-1** | FAN | Type (A) |
| 28-3 | SHE233 | **RMQ0209-K** | FAN CASE | Type (A) |
| | | **SHE233-1** | FAN CASE | Type (B) |
| 28-5 | —— | **RMQ0208-K** | CAP | Type (A) |
| | | **SHE234** | CAP | Type (B) |
| 28-6 | —— | **SJT783** | TERMINAL | Type (B) |
| 28-7 | —— | **SJS5215** | CONNECTOR (2P) | Type (B) |
| 28-8 | —— | **RMQ0212-K** | TERMINAL CAP | Type (A) |
| 35 | RFKGUX502E-K | **RFKGUX520DEK** | FRONT PANEL ASS'Y | |
| 40 | —— | **RJS1A7402** | CONNECTOR (2P) | Type (A) |
| 41 | —— | **XTBS3+8JFZ1** | SCREW | Type (A) |
| PACKING MATERIALS | | | | |
| P1 | RPG0840 | **RPG1206** | PACKING CASE | |
| P3 | SPSD152 | **——** | ACCESSORIES BOX | |
| ACCESSORIES | | | | |
| A1 | RQF1096 | **——** | INSTRUCTIONS MANUAL ASS'Y | |
| A1-1 | RQA0013 | **RQX7433ZA** | WARRANTY CARD | (GN) |
| A1-3 | RFKSUX502E-K | **RFKSCX520DEK** | INSTRUCTIONS MANUAL | (E) |
| | | **RQT1494-B** | INSTRUCTIONS MANUAL | (EB, GN) |
| | | **RQT1493-D** | INSTRUCTIONS MANUAL | (EG) |
| A2 | SJA187 | **——** | AC POWER SUPPLY CORD | ⚠ |



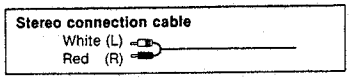


## ■ CONNECTIONS OF EACH UNIT




Connection diagrams shown are for connections to a Technics hi-fi component system.
Make connections in the numbered sequential order.

**1 Connect the stereo connection cables** (included with the turntable, tuner, stereo sound processor, and cassette tape deck).




**1-1**

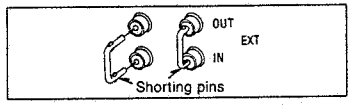
### "GND" terminal of the amplifier

This terminal is for use with a turntable which has a ground wire.

**1-2**

### "EXT" terminals of the amplifier

When these terminals are not in use, be sure to insert the "shorting" pins (included).




**2 Connect the L-type cable** (included with the turntable, tuner, stereo sound processor, compact disc player, and cassette tape deck).

**2-1**

### "REMOTE OUT" terminal

This terminal is used to connect to the "REMOTE IN" terminal of the Technics multi-compact disc player (not included).

**2-2**

### "CONTROL" terminal

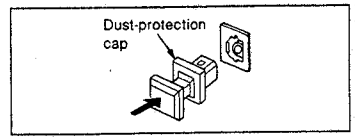
Make a connection from this terminal to the "CONTROL" terminal for a cassette deck on a Technics multi compact disc player.
(For detailed information, refer to the operating instructions of the Technics multi compact disc player.)

**3 Connect the optical-fiber cable** (included with the compact disc player).

**3-1**

### "DIGITAL IN" (CD, DAT) terminals of the amplifier

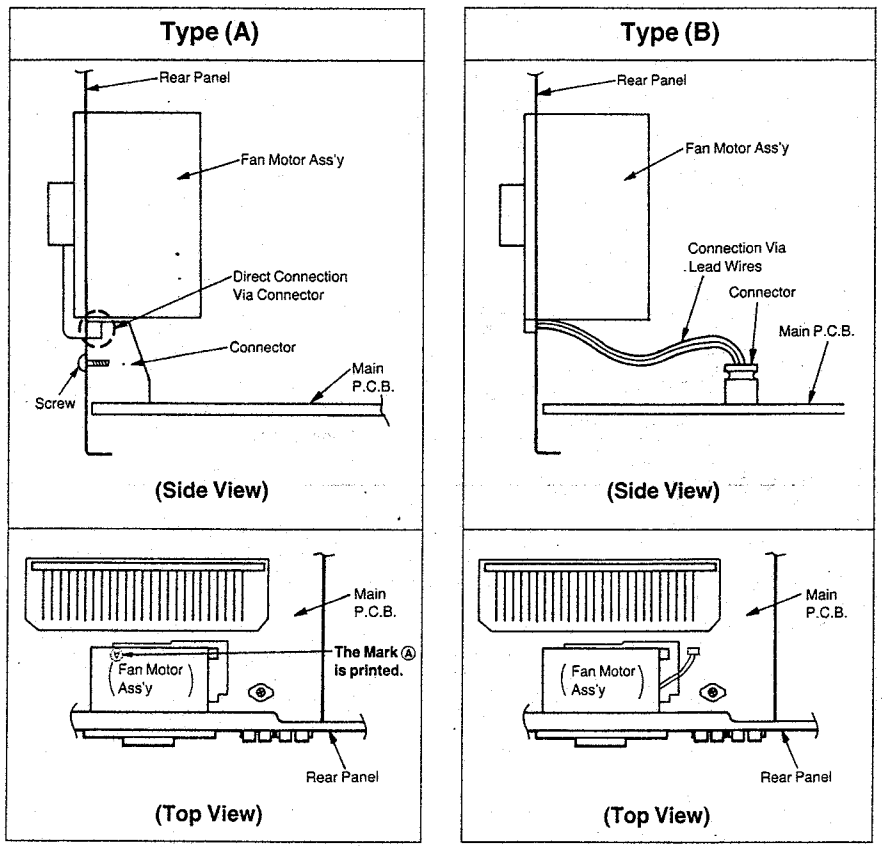
These terminals are protected by the dust-protection caps to avoid damage by the dust, etc.
Remove the caps only when the "DIGITAL IN" terminals are to be used.
When these terminals are not being used, attach the caps as shown in the illustration below.




### ■ Connect the AC power supply cords and AC outlet

(See page 3 of service manual RS-X520, Order No. AD9203068A8.)

•There are two types of the fan motor, i.e: Types A and B.
Type A...The fan motor terminal is a connector type.
The "mark Ⓐ" is printed on the main P.C.B. of type A. (Refer to the diagram below.)
Type B...The fan motor terminal is a lead wire type.
Refer to the diagram below to distinguish type A from type B.

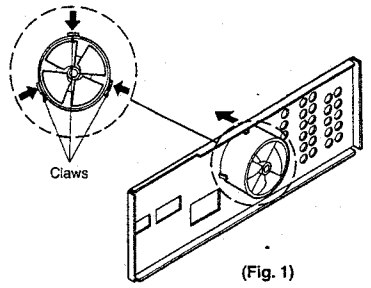




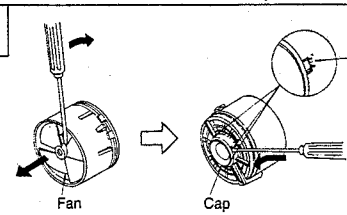



## ■ DISASSEMBLY INSTRUCTIONS

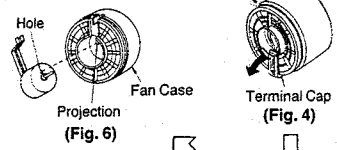
| Ref. No. 14 | Removal of the Fan Motor Ass'y (Type A) |
|---|---|
| Procedure 1→8→14 | |



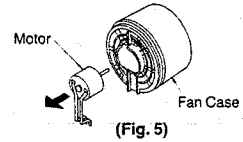

(Fig. 1)




(Fig. 2) (Fig. 3)



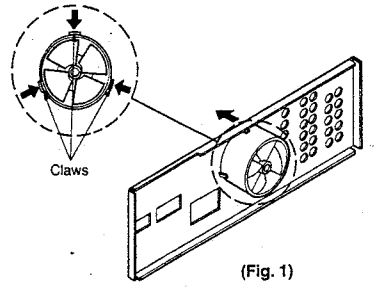

(Fig. 6) (Fig. 4)



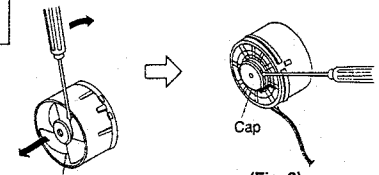

(Fig. 5)

1. Release the 3 claws. (See Fig. 1.)
2. Insert a screwdriver at the root of the fan. Force it out of the motor shaft. (See Fig. 2.)
3. Remove the cap by using ⊖ screwdriver. (See Fig. 3.)
4. Remove the terminal cap in the direction of arrow. (See Fig. 4.)
5. Remove the motor from the fan case. (See Fig. 5.)
6. When mounting the motor, align the fan casing's projection with the hole of the motor. (See Fig. 6.)

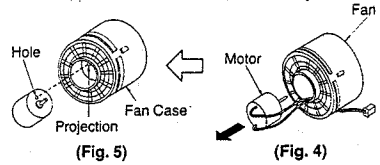
| Ref. No. 14 | Removal of the Fan Motor Ass'y (Type B) |
|---|---|
| Procedure 1→8→14 | |




(Fig. 1)




(Fig. 2) (Fig. 3)

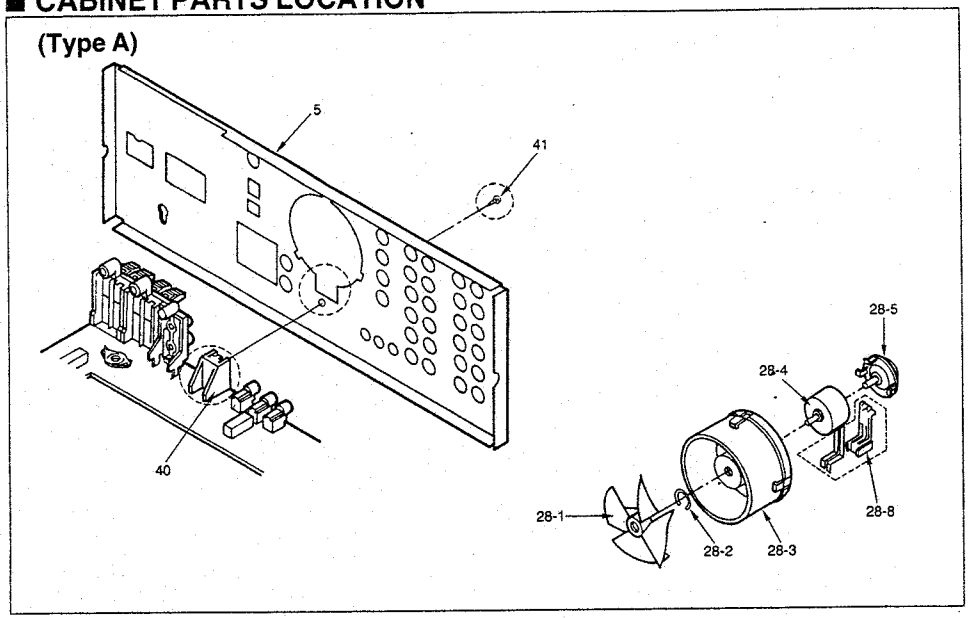



(Fig. 5) (Fig. 4)

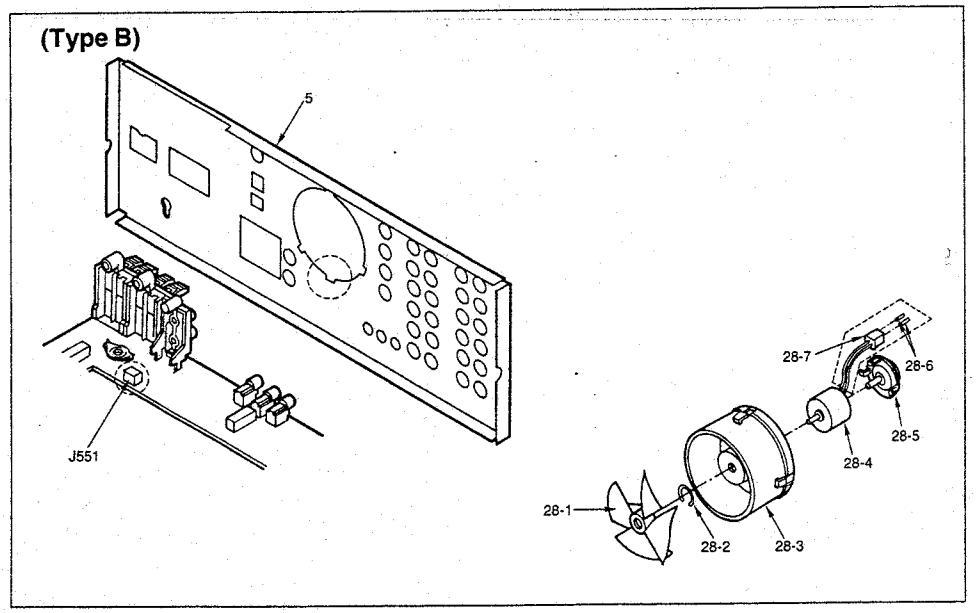
1. Remove the 1 connector (J551).
2. Release the 3 claws. (See Fig. 1.)
3. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft. (See Fig. 2.)
4. Remove the cap by using ⊖ screwdriver. (See Fig. 3.)
5. Remove the motor from the fan casing. (See Fig. 4.)
6. When mounting the motor fan, align the fan casing's projection with the hole of the motor. (See Fig. 5.)

## ■ CABINET PARTS LOCATION

(Type A)




(Type B)




**Note:** The different parts between type A and type B are enclosed by the dot lines in the above diagrams.



Printed in Japan
F920311500FF/YU/TN

# ■ CONTENTS


| | Page |
|---|---|
| Before repaire | 2 |
| Protection circuitry | 2 |
| Accessories | 2 |
| Location of controls | 3 |
| Connections | 4~7 |
| Digitalization of audio signals | 8 |
| Disassembly instructions | 9~12 |
| Schematic diagram | 13~21 |
| Description of FL panel | 21 |
| Circuit board diagram | 22~27 |
| Terminal guide of IC's, transistors and diodes | 27 |
| Wiring connection diagram | 28 |
| Function of IC terminals | 29, 30 |
| Block diagram | 31~33 |
| Replacement parts list | 34~39, 42 |
| Cabinet parts list | 40, 41 |
| Packaging | 42 |


# ■ BEFORE REPAIR

(1) Turn off the power supply. Using a 10Ω, 5 W resistor connect both ends of power supply capacitors (C711, C712, 3300 μF) in order to discharge the voltage.
(2) Before turning the power supply on, after completion of repair, slowly apply the primary voltage by using a power supply voltage controller to make sure that the consumed current at 50 Hz/60 Hz in NO SIGNAL mode should be shown below with respect to supply voltage 110 V/127 V/220 V/ 240 V.

| Power supply voltage | AC 110 V | AC 120 V | AC 220 V | AC 230 V | AC 240 V |
|---|---|---|---|---|---|
| Consumed current 50 Hz | 323~754 mA | 297~694 mA | 160~373 mA | 154~360 mA | 146~341 mA |
| Consumed current 60 Hz | 316~737 mA | 291~679 mA | 156~365 mA | 150~351 mA | 144~336 mA |

# ■ PROTECTION CIRCUITRY

The protection circuitry may have operated if either of the following conditions is noticed:
*No sound is heard when the power is switched ON.
*Sound stops during a performance.
The function of this circuitry is to prevent circuitry damage if, for example, the postive and negative speaker connection wires are "shorted", or if speaker systems with an impedance less than the indicated rated impedance of this unit are used.
If this occurs, follow the procedure outlined below:
1. Switch OFF the power.
2. Determine the cause of the problem and correct it.
3. Switch ON the power once again.

**Note:**
When the protection circuitry functions, the unit will not operate unless the power is first switched OFF and then ON AGAIN.

# ■ ACCESSORIES

•AC power supply cord ..... 1
Configuration of AC power supply cord differs according to area.

SJA187..... For (E) (EG) area only.
SJA173..... For (GN) area only
SJA188..... For (EB) area only.
RJA0004 ..... For (GC) area only.
SFDAC05E03 .... For others.

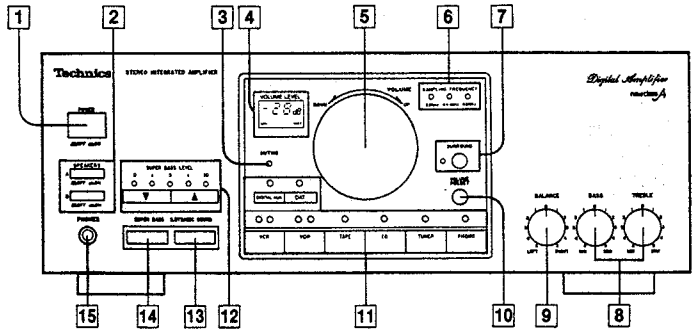
•AC plug adaptor ..... 1

SJP9215 ..... For (GC) area only.

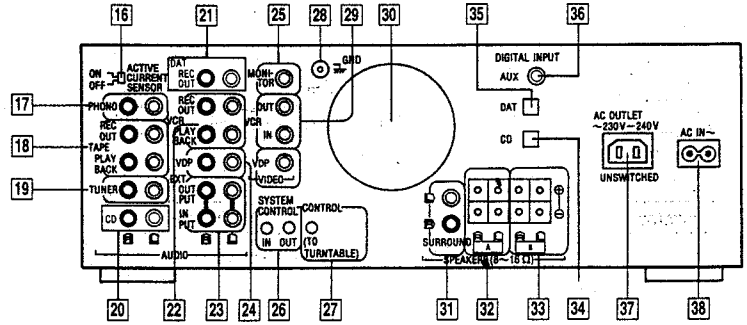




# ■ LOCATION OF CONTROLS




1 Power switch (POWER)
2 Speaker selectors (SPEAKERS)
3 Muting indicator (MUTING)
4 Volume-level indicator (VOLUME LEVEL)
5 Volume control (VOLUME)
6 Sampling frequency indicators (SAMPLING FREQUENCY)
7 Surround-sound button/indicator (SURROUND)
8 Tone controls (BASS/TREBLE)
9 Balance control (BALANCE)
10 Volume preset button (VOLUME PRESET)
11 Input selectors/indicators
12 Super bass level control buttons/indicators (SUPER BASS LEVEL)
13 Super dynamic sound button/indicator (S. DYNAMIC SOUND)
14 Super bass button/indicator (SUPER BASS)
15 Headphones jack (PHONES)



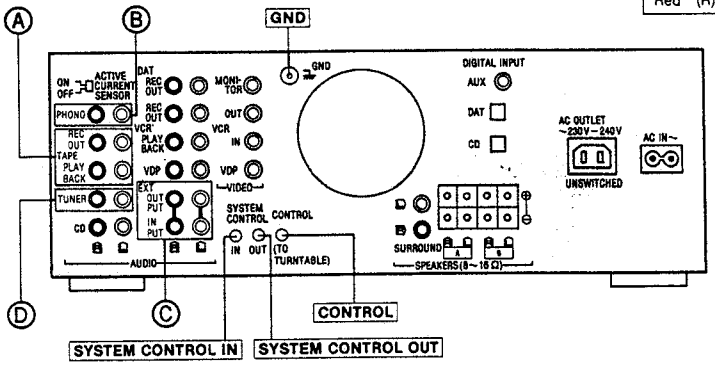

16 Active current sensor switch
17 Phono input terminal
18 Tape rec out/playback terminal
19 Tuner input terminal
20 CD input terminal
21 DAT recout terminal
22 VCR recout/playback terminal
23 EXT output/input terminal
24 VDP input terminal
25 MONITOR terminal
26 System control IN/OUT terminal
27 Control terminal (to turntable)
28 GND terminal
29 VCR out/in terminal
30 Cooling fan
31 Surround-sound speaker terminal
32 Main speaker A terminal
33 Main speaker B terminal
34 CD digital input terminal
35 DAT digital input terminal
36 AUX digital input terminal
37 AC outlet
38 AC inlet

# ■ CONNECTIONS

**Make connections to each component in the system by using stereo connection cables (not included).**

See the operating instructions of the tuner (ST-X902L) for details.

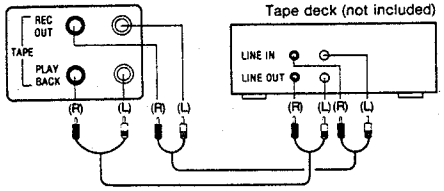
**Stereo connection cable**
White (L)
Red (R)




## Connecting audio components

### Ⓐ "TAPE" terminals

Connect a tape deck.

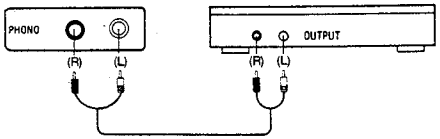



### ■ "SYSTEM CONTROL OUT" terminal

This terminal is used to connect a Technics tape deck with the "SYSTEM CONTROL IN" terminal.

### Ⓑ "PHONO" terminals

Connect a turntable.




### ■ "GND" terminal

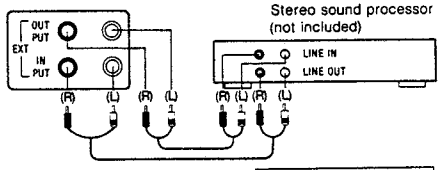
This terminal is for use with a turntable which has a ground wire.

### ■ "CONTROL" terminal

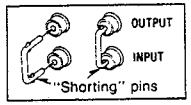
This terminal is used to connect a Technics turntable with the "REMOTE/SYNCHRO REC" terminal.

### Ⓒ "EXT" terminals

Connect a stereo sound processor.

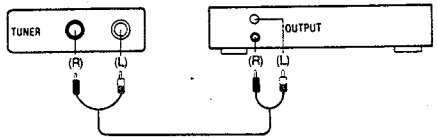



**Note:**
When these terminals are not in use, be sure to insert the "shorting" pins (included).




### Ⓓ "TUNER" terminals

Connect a tuner.



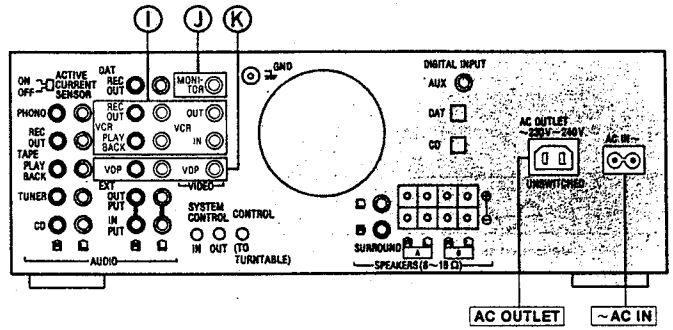

### ■ "SYSTEM CONTROL IN" terminal

This terminal is used to connect a Technics tuner with the "SYSTEM CONTROL OUT" terminal.





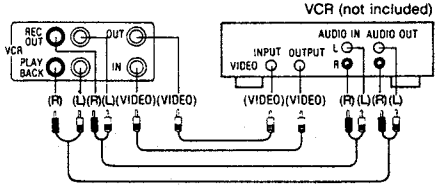
Make connections to each component by using stereo connection cables (not included) and video connection cables (not included).




## Connecting video equipment

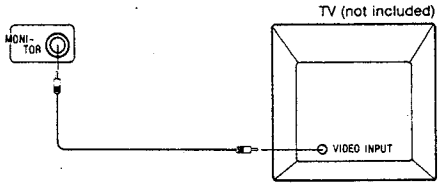
### Ⓘ "VCR" terminals

Connect a VCR.



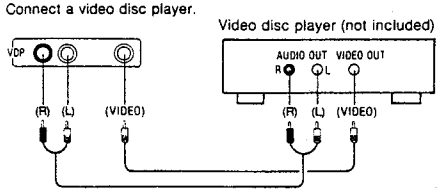

### Ⓙ "MONITOR" terminal

Connect a TV.




### Ⓚ "VDP" terminals

Connect a video disc player.




## AC outlet ("AC OUTLET")

Do not connect video equipment (such as a TV, etc.) to the AC outlet of this unit. (This outlet is intended for audio equipment.) Do not exceed the indicated power ratings when connecting to this outlet.

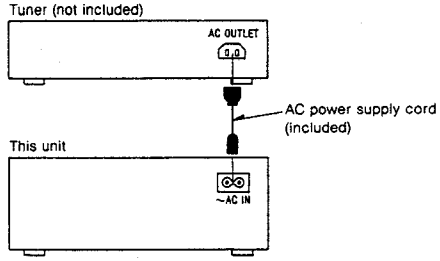
**"UNSWITCHED" outlet:**
Power is always available, regardless of power switch.
Audio equipment rated up to 60 W can be connected here.

**Note:**
The configuration of the AC outlet differs according to area.

## AC power supply cord

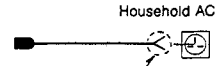
Connect the AC power supply cord (included) after all other cables and cords are connected.

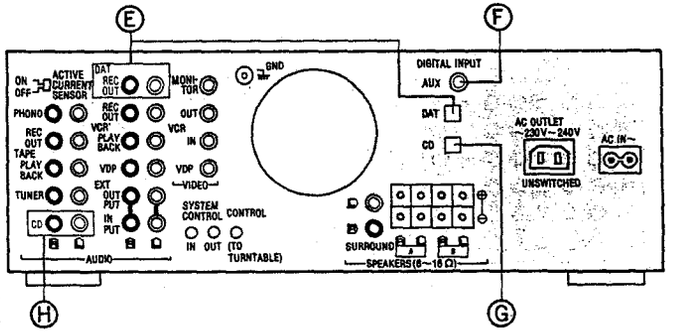
**Notes:**
- Configuration of the AC outlet and AC power supply cord differs according to area.
- If this unit is not to be connected with the tuner, the cord is to be connected to the household AC outlet.




**For United Kingdom**

Cut off and dispose of the plug and replace with a suitable plug.

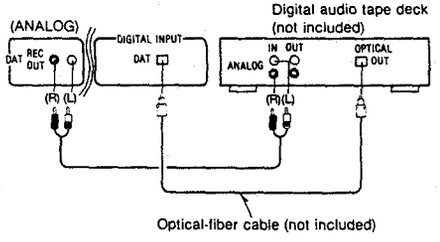





## Connecting audio components

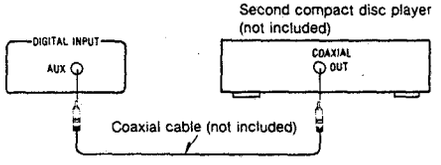
### Ⓔ "DAT" terminals (ANALOG/DIGITAL)

Connect a digital audio tape deck.
Recordings can be made to the digital audio tape deck.



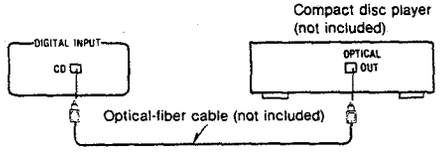

### Ⓕ "AUX" terminal (DIGITAL)

Connect a second compact disc player, etc.



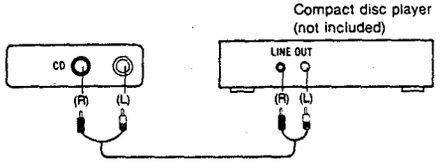

### Ⓖ "CD" terminal (DIGITAL)

Connect a compact disc player.



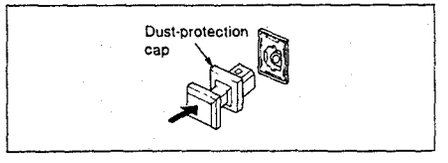

### Ⓗ "CD" terminals (ANALOG)

Connect a compact disc player.



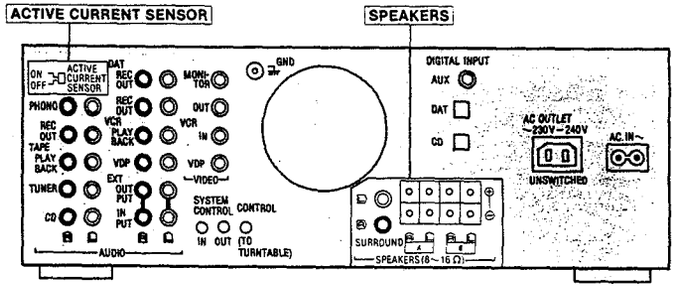

### ■ "DIGITAL INPUT" (DAT, CD) terminals of this unit

These terminals are protected by dust-protection caps to avoid damage by dust, etc.
Remove the caps only when the "DIGITAL INPUT" terminals are to be used.
When these terminals are not being used, attach the caps as shown in the illustration at right.







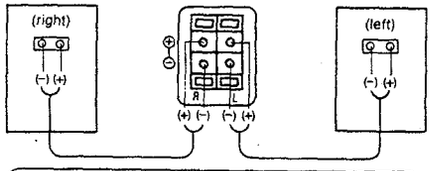




## Connection of speaker systems

Three pairs of speaker systems (main, second, surround-sound) can be connected to this unit.
Speaker systems that can be connected to any of the speaker connection terminals of this unit are speaker systems with an impedance of 8 to 16 ohms.
Make connections to each speaker system by using speaker *cords (not included)*.

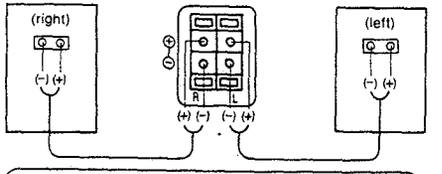
### Main speaker systems (not included)

Connect to the "A" terminals.




### Second speaker systems (not included)

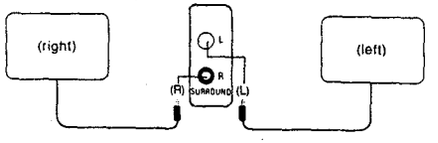
Connect to the "B" terminals.




### Surround-sound speaker systems (not included)

Connect to the "SURROUND" terminals.

- Be sure to connect both speaker systems. If only one side is connected, no sound will be heard.



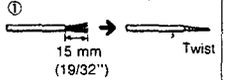

### How to use the active current sensor

The selector is used to enjoy powerful super-bass sound.
**ON:** Switch ON when connecting the Technics system speakers (SU-X902: SB-CS90, SU-X502: SB-CS90/CS70).
**OFF:** Switch OFF when connecting speakers other than Technics system speakers.

**Notes:**
- When connecting speakers other than system speakers, sound from the speakers may not be heard if the selector is pressed ON, because the protecting circuit on the amplifier becomes active.
- The active current sensor activates only for the speaker systems connected to the "A" terminals.

### To connect cords to terminals

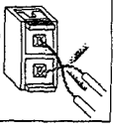
1. Strip off the outer covering, and twist the center conductor.




2. Tilt the lever back and insert the cord.
3. Close the lever and pull the cord gently to be sure that it is secure.

**Note:**
Be sure to only connect positive (+) cords to positive (+) terminals, and negative (–) cords to negative (–) terminals.

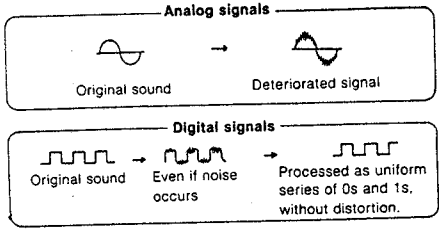
**Note:**
To prevent damage to circuitry, never short-circuit the plus (+) and minus (–) speaker wire.



# ■ DIGITALIZATION OF AUDIO SIGNALS

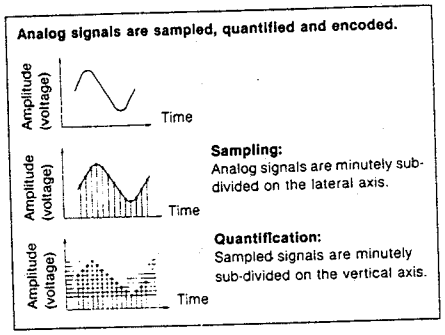
## ■ Why digitize?

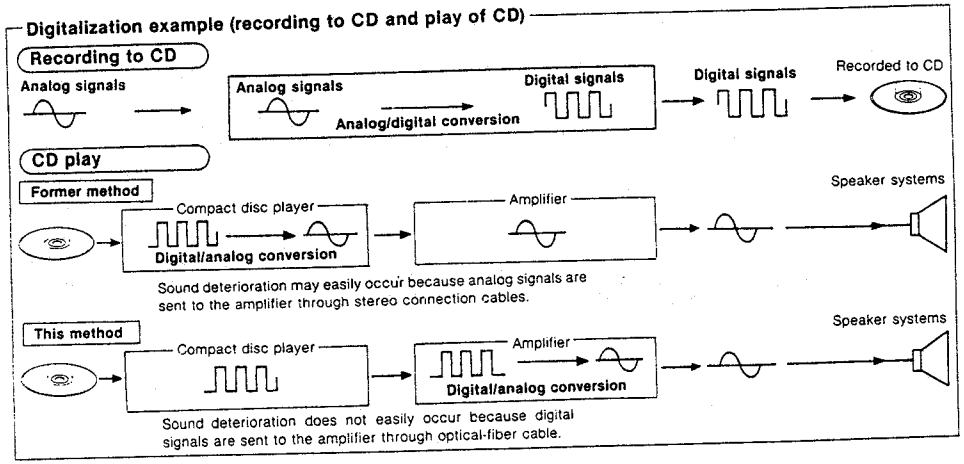
- Audio signals are analog signals with a continuous form.
- When these audio signals are subjected to repeated electronic processing (recording, playback, etc.), they become noisy and distortion occurs, thus resulting in deterioration of the sound quality.
- When these signals are first digitized before processing, they have the following advantages that prevent deterioration of the sound quality:
  1. Resistance to noise
  2. Extremely low distortion
  3. Flat, even frequency response




## ■ How signals are digitized

If it is known to what degree of minuteness the human ear can distinguish sounds, it is then possible, by using that data as the standard reference, to digitize them by dividing analog signals into minute pieces, after which they can be transmitted with a high degree of precision, and thereafter recorded and played back in the digitized format.


Analog signals are sampled, quantified and encoded.
Amplitude (voltage)
Time
Sampling:
Analog signals are minutely sub-divided on the lateral axis.
Quantification:
Sampled signals are minutely sub-divided on the vertical axis.




### What the sampling frequency is

The sampling frequency expresses the degree of minuteness to which signals can be cut, relative to a certain specified time interval, during sampling.
For compact disc sound:
Analog signals are cut 44,100 times (i.e., 44.1 kHz) during one second.
This 44.1 kHz is, therefore, the sampling frequency for compact disc sound.

### What analog/digital conversion is

Audio signals (analog signals) are taken out (sampled) at certain fixed time intervals. The points at which this sampling frequency occurs are digitally encoded and converted to digital signals.

### What digital/analog conversion is

Each sampling frequency point is returned (converted) to voltage, thus converting digital signals to the analog signals that we can hear.

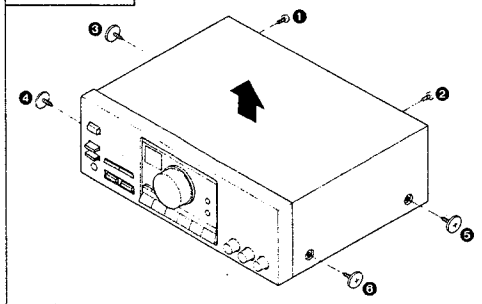




# ■ DISASSEMBLY INSTRUCTIONS

## Ref. No. 1 — Removal of the Cabinet

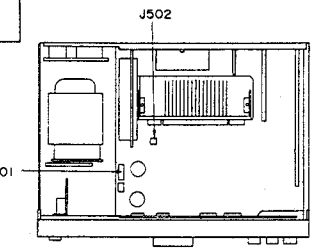
Procedure 1



1. Remove the 6 screws (❶~❻).
2. Remove the cabinet in the direction of the arrow.

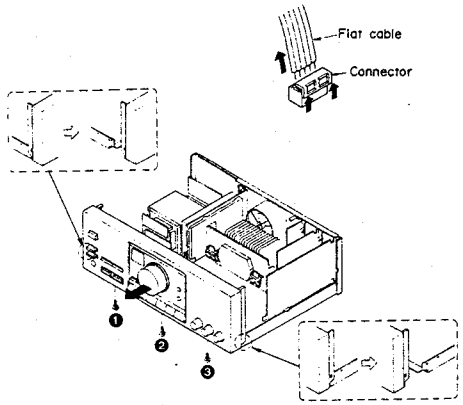
## Ref. No. 2 — Removal of the Front Panel Unit

Procedure 1→2




1. Remove the 2 connectors (J501, J502).

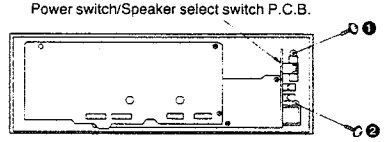
—Removal of the Connector—




2. Remove the 3 screws (❶~❸).
3. Remove the front panel unit in the direction of the arrow.

## Ref. No. 3 — Removal of the Power Switch/Speaker Select Switch P.C.B.

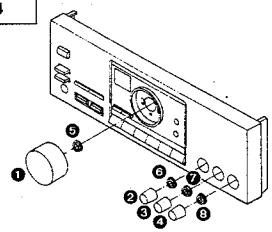
Procedure 1→2→3

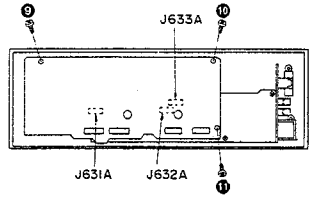


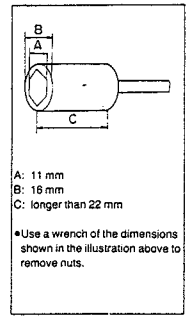

•Remove the 2 screws (❶, ❷).

## Ref. No. 4 — Removal of FL Drive P.C.B.

Procedure 1→2→4



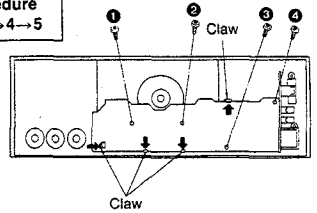



1. Remove the 4 knobs (❶~❹).
2. Remove the 4 nuts (❺~❽).
3. Remove the 3 screws (❾~⓫).
4. Remove the 3 connectors (J631A, J632A, J633A).

## Ref. No. 5 Removal of the Operation P.C.B.

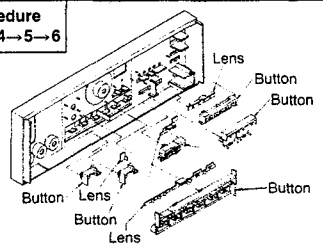
**Procedure** 1→2→4→5




1. Remove the 4 screws (❶~❹).
2. Release the 4 claws in the direction of the arrow.

## Ref. No. 6 Removal of the Operation Buttons

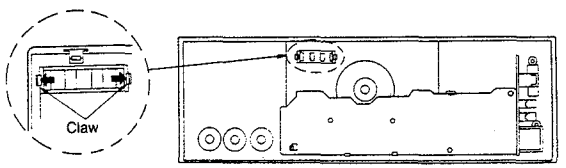
**Procedure** 1→2→4→5→6




●Pull out the buttons and Lens.

## Ref. No. 7 Removal of the Sampling Frequency Indicator Lens

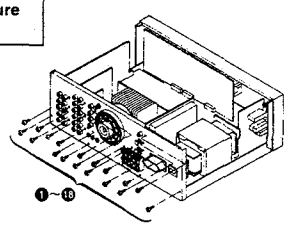
**Procedure** 1→2→4→7



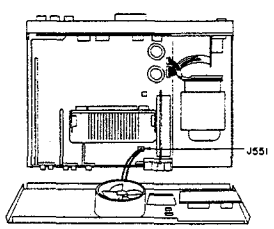

●Release the 2 claws.

## Ref. No. 8 Removal of the Rear Panel

**Procedure** 1→8



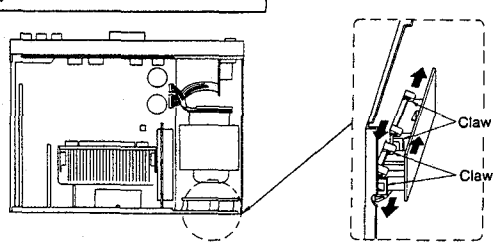

1. Remove the 18 screws (❶~⓲).




2. Release the connector (J551).

## Ref. No. 9 Removal of the AC OUTLET/AC IN P.C.B.

**Procedure** 1→9




●Release the 4 claws.



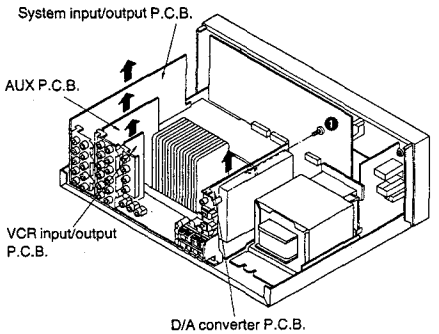


## Ref. No. 10 Removal of the P.C.B.s

**Procedure** 1→8→10

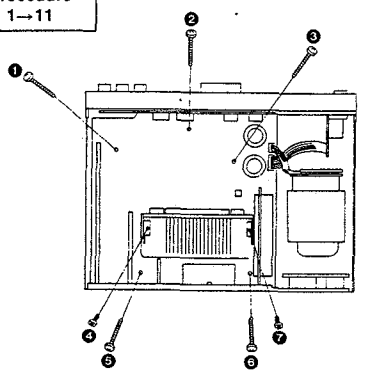
■ **Removal of the D/A converter P.C.B.**
1. Remove the screw (❶).
2. Remove the D/A converter P.C.B. in the direction of the arrow.

■ Removal of the other P.C.B.
●Remove the P.C.B. in the direction of the arrow.

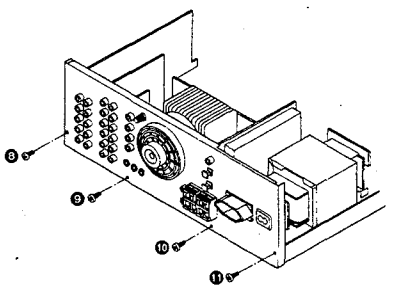



## Ref. No. 11 Check of the main P.C.B.

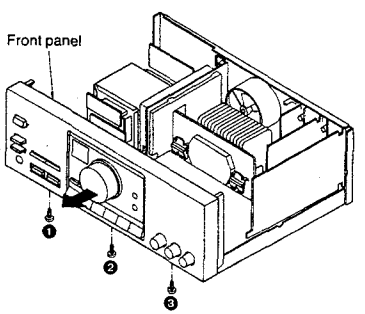
**Procedure** 1→11



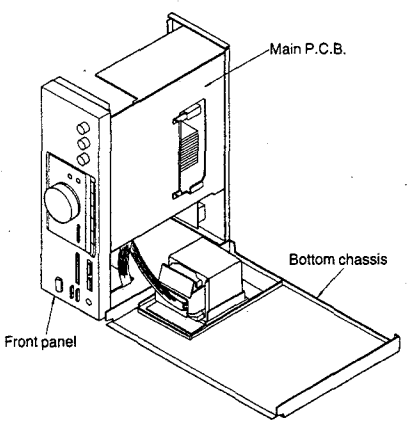
1. Remove the 7 screws (❶~❼).



2. Remove the 4 screws (❽~⓫).

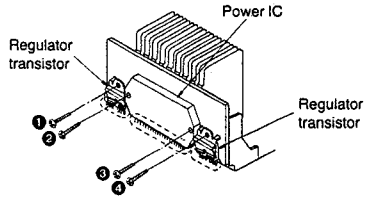



3. Remove the 3 screws (⓬~⓮).
4. Remove the front panel unit in the direction of the arrow.
*Connect 2 flat cables (J501A, J502).



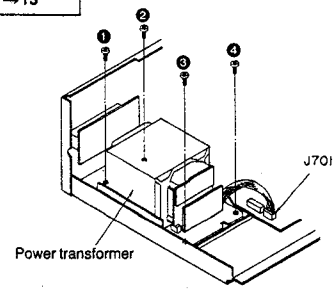

5. Remove the bottom chassis.
6. Reinstall the front panel unit to the main P.C.B.

| Ref. No. 12 | Removal of the Power IC and Regulator Transistor |
|---|---|
| Procedure 1→11→12 | 1. Unsolder the power IC or regulator transistor.<br>2. Remove the 4 screws (❶~❹). |



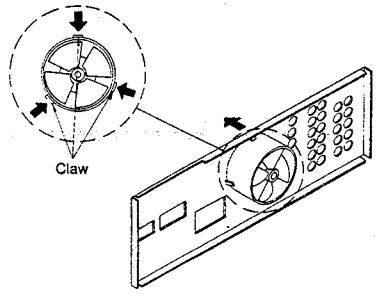

**Note:** When mounting the power IC, or regulator transistor apply silicon terminal compound (SZZ0L15) to the rear of the power IC or regulator transistor.

| Ref. No. 13 | Removal of the Power Transformer |
|---|---|
| Procedure 1→13 | |

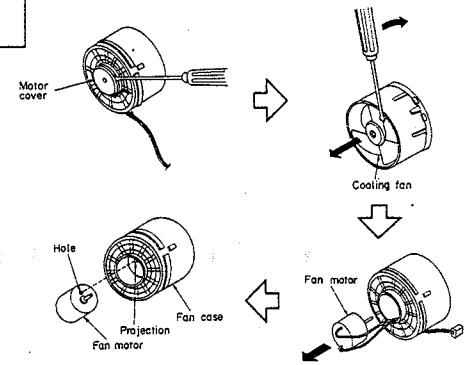



1. Remove the 1 flat cable (J701).
2. Remove the 4 screws (❶~❹).

| Ref. No. 14 | Removal of the Fan Motor |
|---|---|
| Procedure 1→8→14 | |




1. Remove the 1 connector (J209).
2. Release the 3 claws.

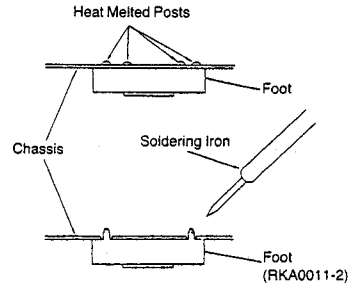



3. Insert a screwdriver at the root of the cooling fan. Force it out of the motor shaft.
4. Remove the motor cover by used ⊖ screwdriver.
5. Remove the motor from the fan casing.
6. When mounting the motor fan, align the fan casing's projection with the hole of the fan motor.

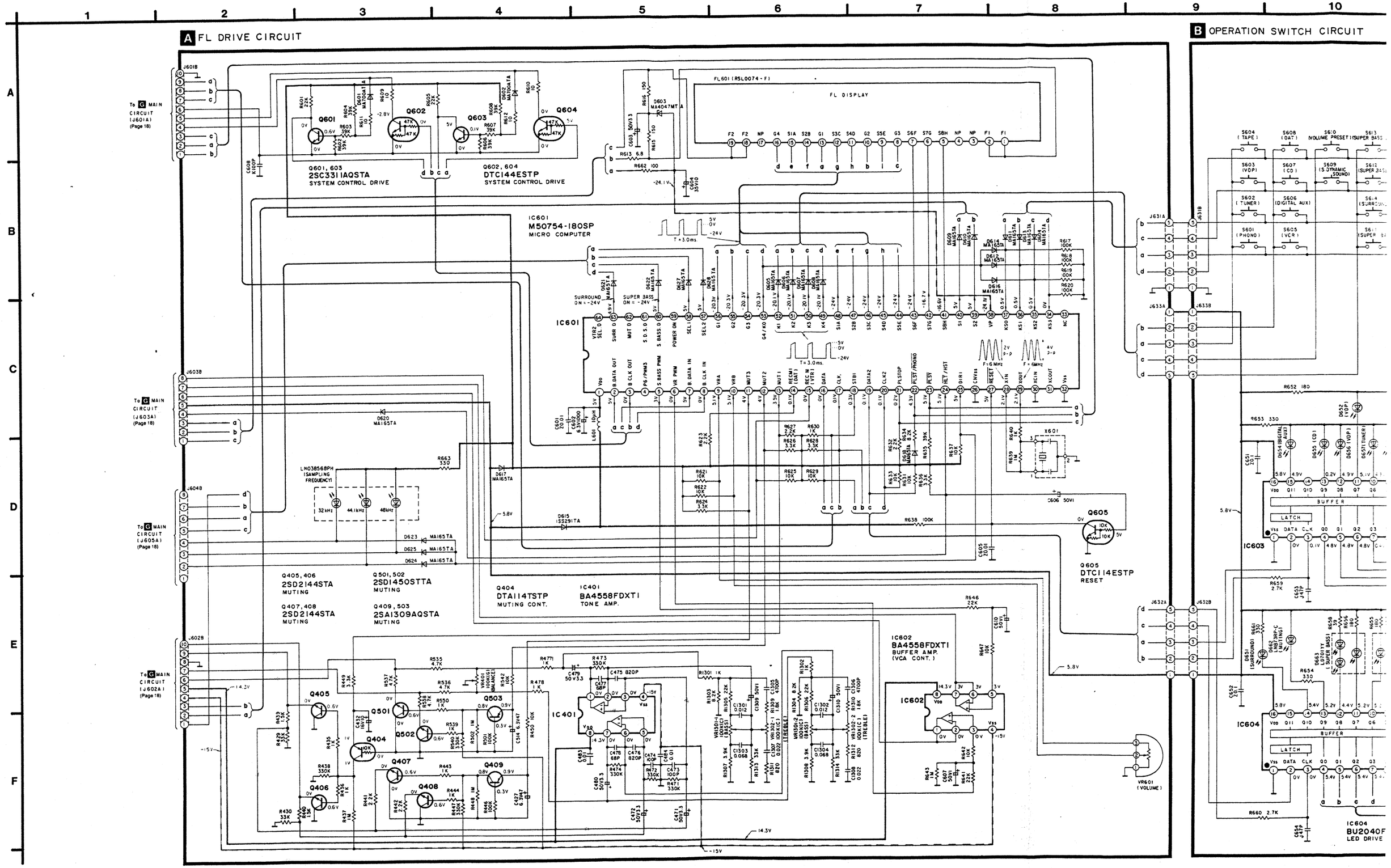
**"ATTENTION SERVICER"**
Some chassis components may have sharp edges. Be careful when disassembling and servicing.

## ●Replacement of the Foot.

1. Remove the 4 heat melted posts on the chassis with a pair of nippers or similar tool.
2. To replace the foot (RKA0011-2) on the chassis, melt the 4 posts with a soldering iron.



# ■ SCHEMATIC DIAGRAM



3 4 5 6 7 8 9 10 11 12

CIRCUIT

B OPERATION SWITCH CIRCUIT

Q601, 603
2SC3311AQSTA
SYSTEM CONTROL DRIVE

Q602, 604
DTC144ESTP
SYSTEM CONTROL DRIVE

FL601 (RSL0074-F)
FL DISPLAY

IC601
M50754-180SP
MICRO COMPUTER

Q405, 406
2SD2144STA
MUTING

Q501, 502
2SD1450STTA
MUTING

Q407, 408
2SD2144STA
MUTING

Q409, 503
2SA1309AQSTA
MUTING

Q404
DTA114TSTP
MUTING CONT.

IC401
BA4558FDXTI
TONE AMP.

IC602
BA4558FDXTI
BUFFER AMP.
(VCA CONT.)

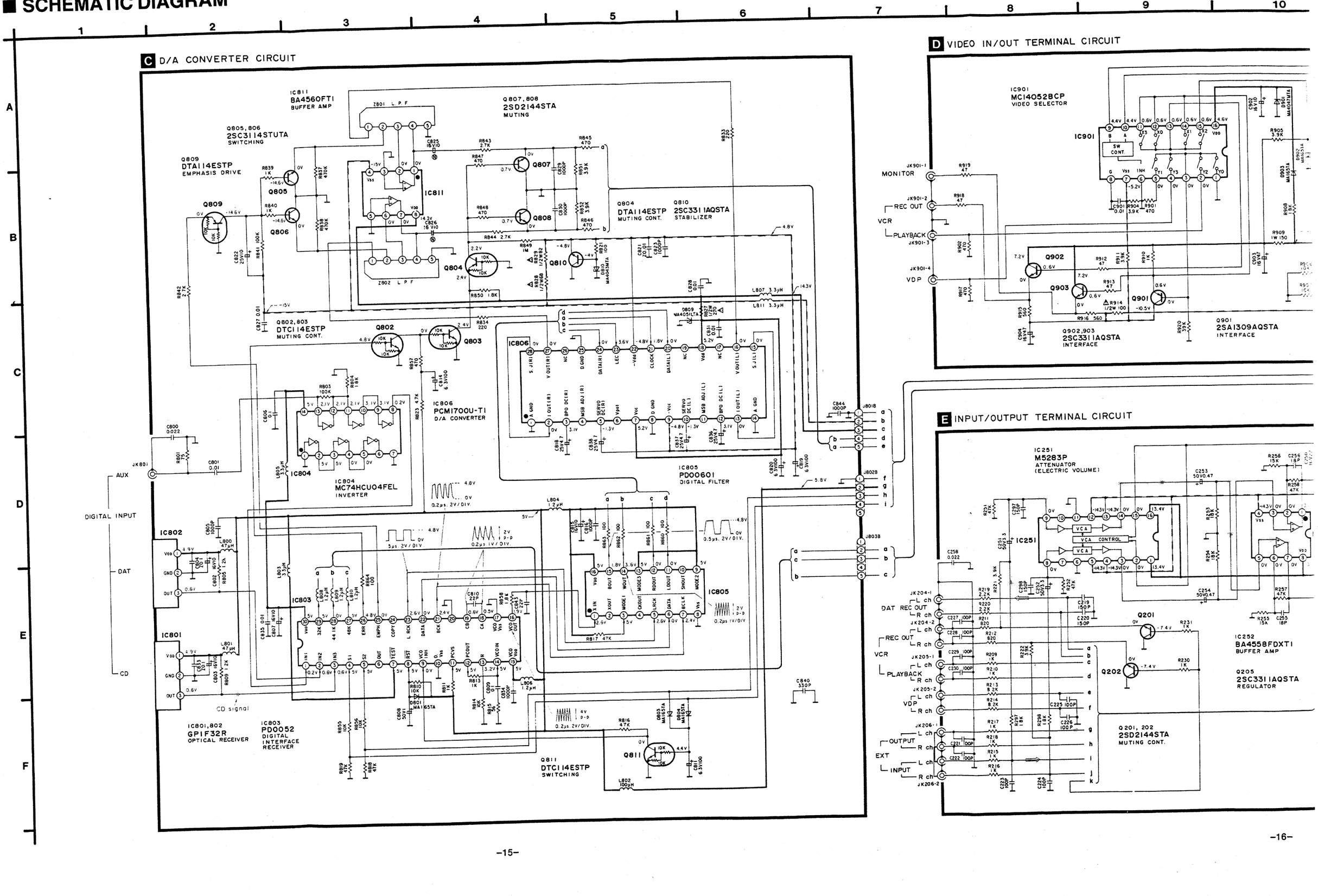
Q605
DTC114ESTP
RESET

IC603
BU2040F-T2
LED DRIVE

IC604
BU2040F-T2
LED DRIVE

SU-X502 SU-X502

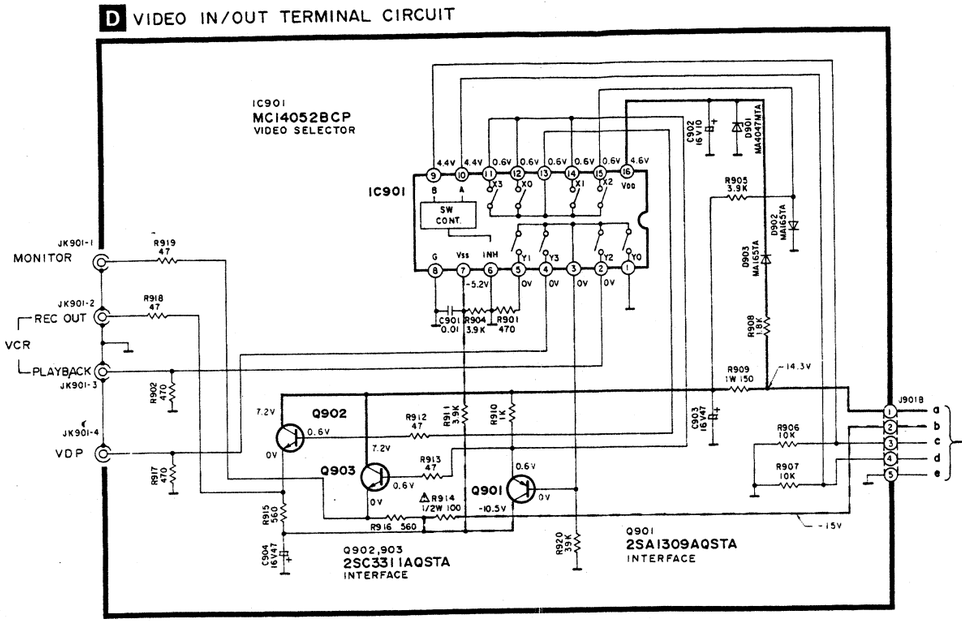
# ■ SCHEMATIC DIAGRAM



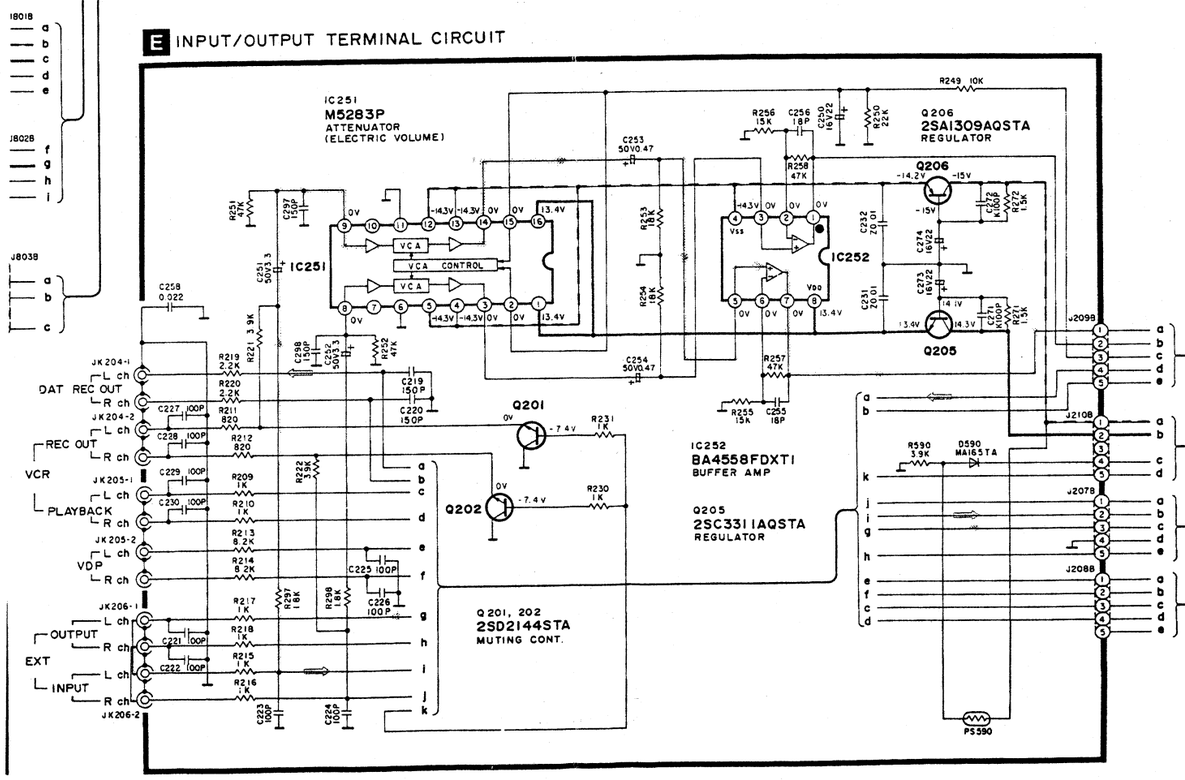
SU-X502

7 8 9 10 11 12 13 14 15 16 17

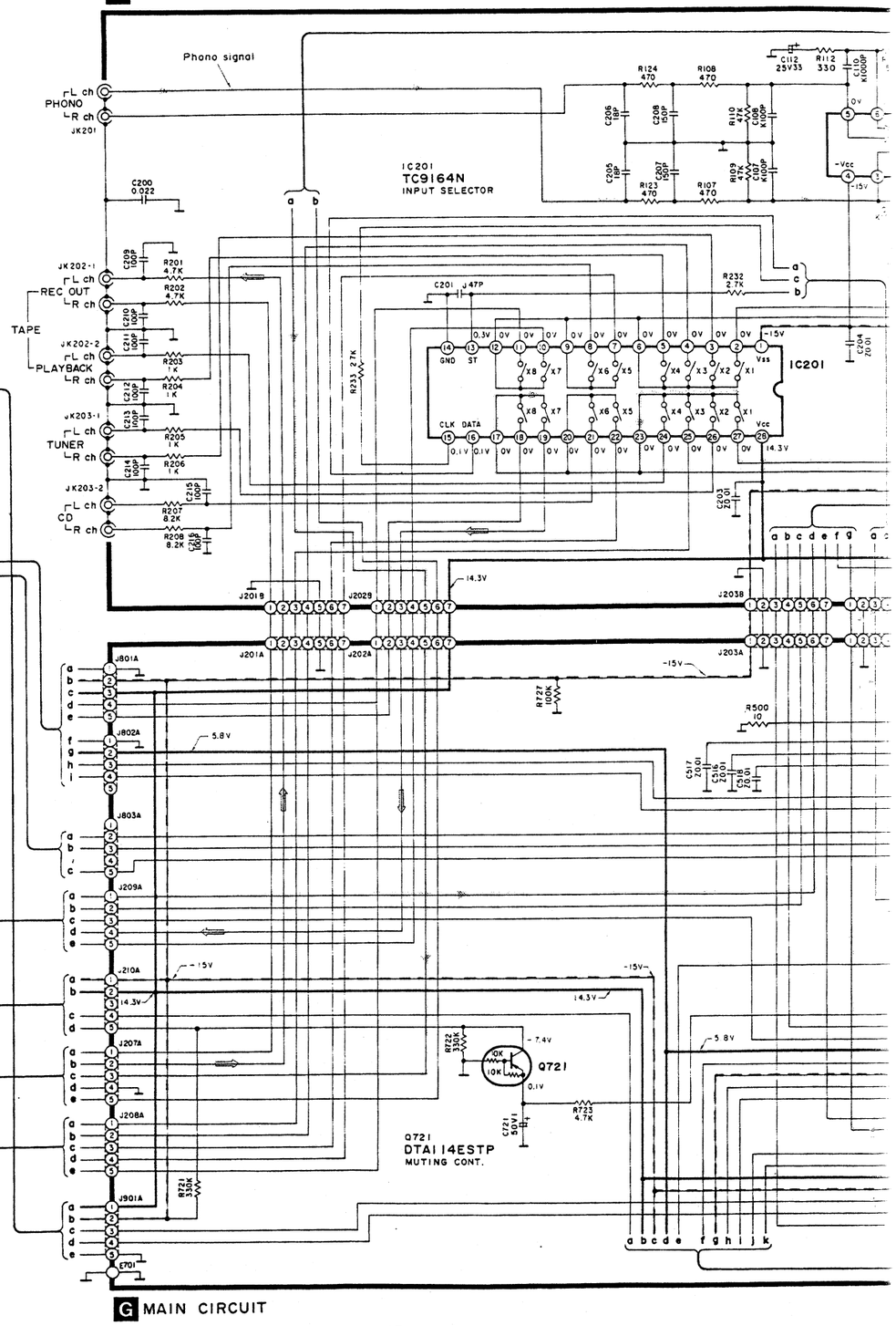
## D VIDEO IN/OUT TERMINAL CIRCUIT




## E INPUT/OUTPUT TERMINAL CIRCUIT



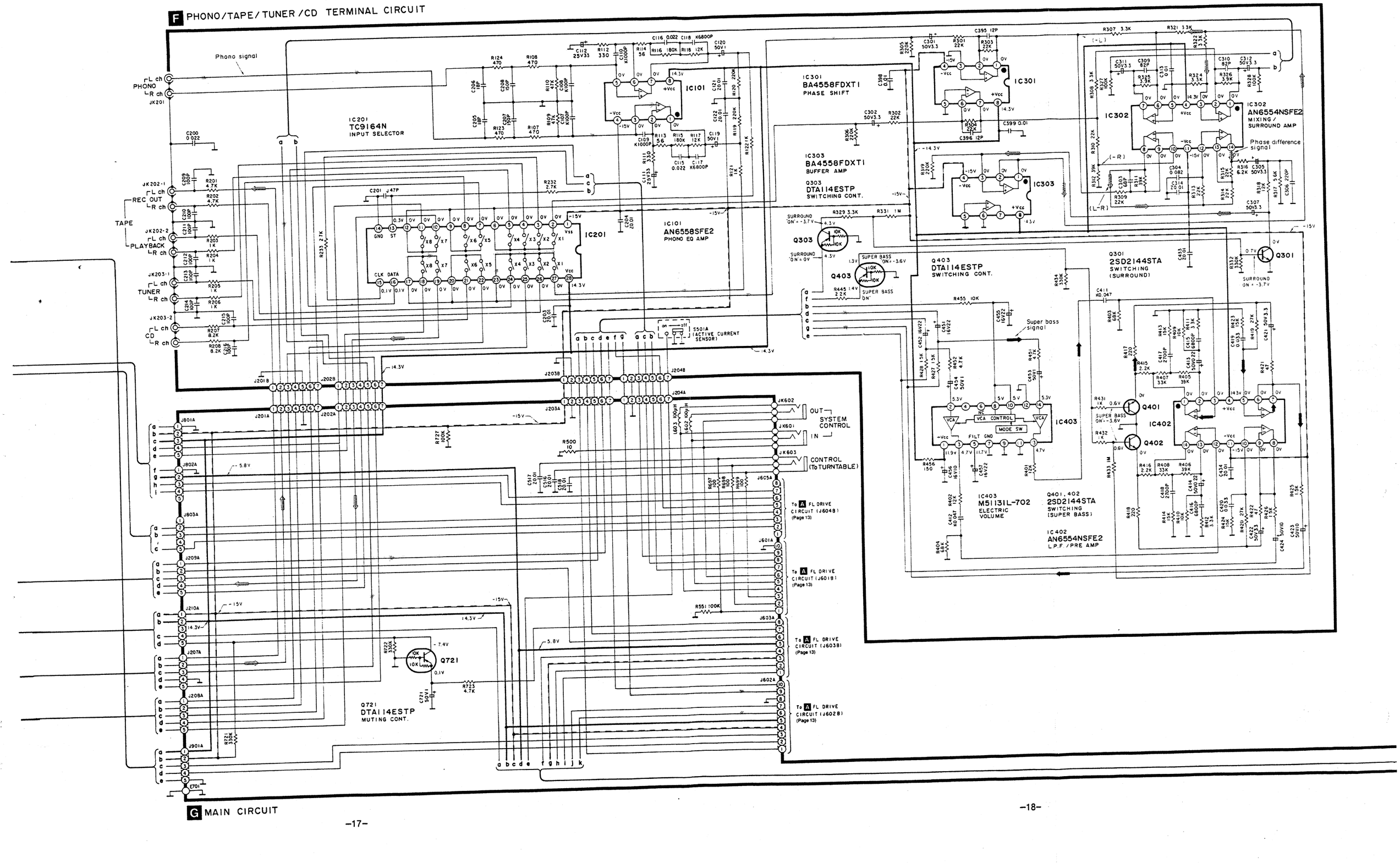

## F PHONO/TAPE/TUNER/CD TERMINAL CIRCUIT




## G MAIN CIRCUIT

13 14 15 16 17 18 19 20 21 22

**F** PHONO/TAPE/TUNER/CD TERMINAL CIRCUIT




**G** MAIN CIRCUIT

23 24 25 26 27 28 29 30 31 32

## H POWER SWITCH/HEADPHONES CIRCUIT

IC501
SVI3204
POWER AMP

Q510
2SA992EFPTA
RELAY DRIVE

IC504
M5218AP
BUFFER AMP

Q1551, 1552
2SC3312RSTA
CURRENT STABILIZER

Q1501, 1503
2SA1309AQSTA
BIAS CONTROL

Q1502, 1504
2SA1309AQSTA
BIAS CONTROL

IC502
AN6554F
SIGNAL LEVEL DET.

IC503
TC4066B
SWITCHING

Q1505
DTC114ESTP
A.C.S. CONTROL

Q1506
DTA114ESTP
A.C.S. CONTROL

Q702
2SB621AQRSTA
REGULATOR

Q705
2SD1761DEF
REGULATOR

Q701
UN4215TA
STABILIZER

Q703
2SD1761DEF
REGULATOR

Q704
2SB1187DEF
REGULATOR

Q706
2SD1761DEF
REGULATOR

Q504
2SC3311AQSTA
MOTOR DRIVE

Q505
2SA1309AQSTA
MOTOR DRIVE

HEADPHONES

SPEAKERS
(8~16Ω)

SURROUND

MOTOR

## I AC IN/ AC OUTLET CIRCUIT

Power Source Circuit Fo

# ■ DESCRIPTION OF FL PANEL

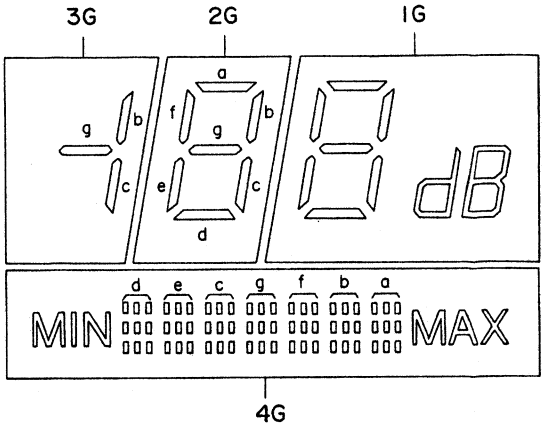
**Notes: (This schematic diagram may be modified at any time with the development of new technology.)**

- **•S501A** : Active current sensor switch in "OFF" position.
- **•S501** : Speaker ON/OFF switch.
  (S501-1: SPEAKER A in "ON" position
  S501-2: SPEAKER B in "OFF" position)
- **•S601** : Turntable input switch. (PHONO)
- **•S602** : Tuner input switch. (TUNER)
- **•S603** : Video disc player input switch. (VDP)
- **•S604** : Tape deck input switch. (TAPE)
- **•S605** : Video cassette recorder input switch. (VCR)
- **•S606** : Digital AUX input switch. (DIGITAL AUX)
- **•S607** : CD input switch. (CD)
- **•S608** : Digital audio tape deck input switch. (DAT)
- **•S609** : Super dynamic sound switch. (S. DYNAMIC SOUND)
- **•S610** : Volume preset switch. (VOLUME PRESET)
- **•S611** : Super bass switch. (SUPER BASS)
- **•S612** : Super bass level control switch. (SUPER BASS LEVEL ▲)
- **•S613** : Super bass level control switch. (SUPER BASS LEVEL ▼)
- **•S614** : Surround-sound switch. (SURROUND)
- **•S701** : Power switch. (POWER)

CD signal (Lch), Phono signal (Lch)
Positive voltage lines (+)
Negative voltage lines (−)
Super bass signal
Phase difference signal
Recording signal

- •Indicated voltage values are the standard values for the unit measured by the DC electronic circuit tester (high-impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
- •Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

**•Caution!**
IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care furing repair.
•Cover the parts boxes made of plastics with aluminum foil.
•Ground the soldering iron.
•Put a conductive mat on the work table.
•Do not touch the legs of IC or LSI with the fingers directly.



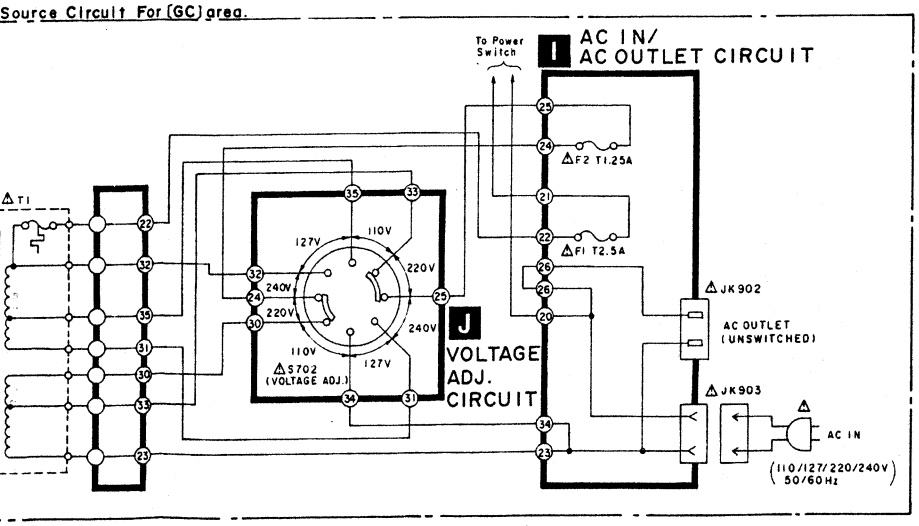

| | 4G | 3G | 2G | 1G |
|---|---|---|---|---|
| P1 | a | — | a | a |
| P2 | b | b | b | b |
| P3 | c | c | c | c |
| P4 | d | — | d | d |
| P5 | e | — | e | e |
| P6 | f | — | f | f |
| P7 | g | g | g | g |
| P8 | MIN MAX | — | — | dB |

PIN CONNECTION

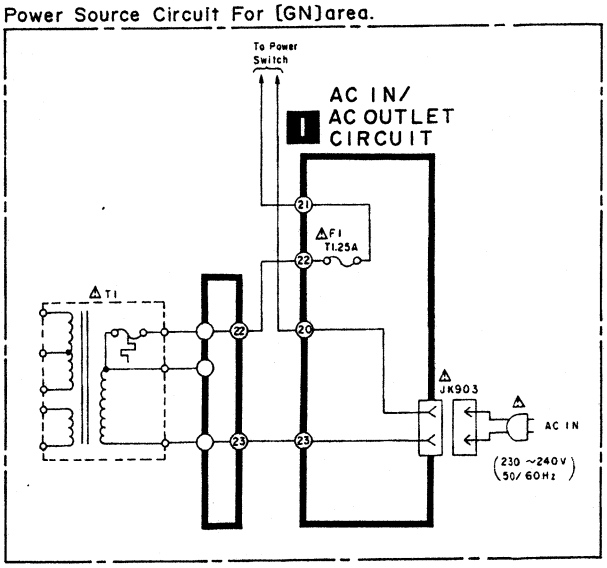
| PIN NO. | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CONNECTION | F2 | F2 | NP | G1 | P2 | P3 | G3 | P4 | P2 | G5 | P1 | G6 | P6 | P7 | P8 | NP | NP | F1 | F1 |

**Notes:**
F1, F2 ..... Filament
NP ..... No pin
1G~4G..... Grid

Source Circuit For [GC] area.

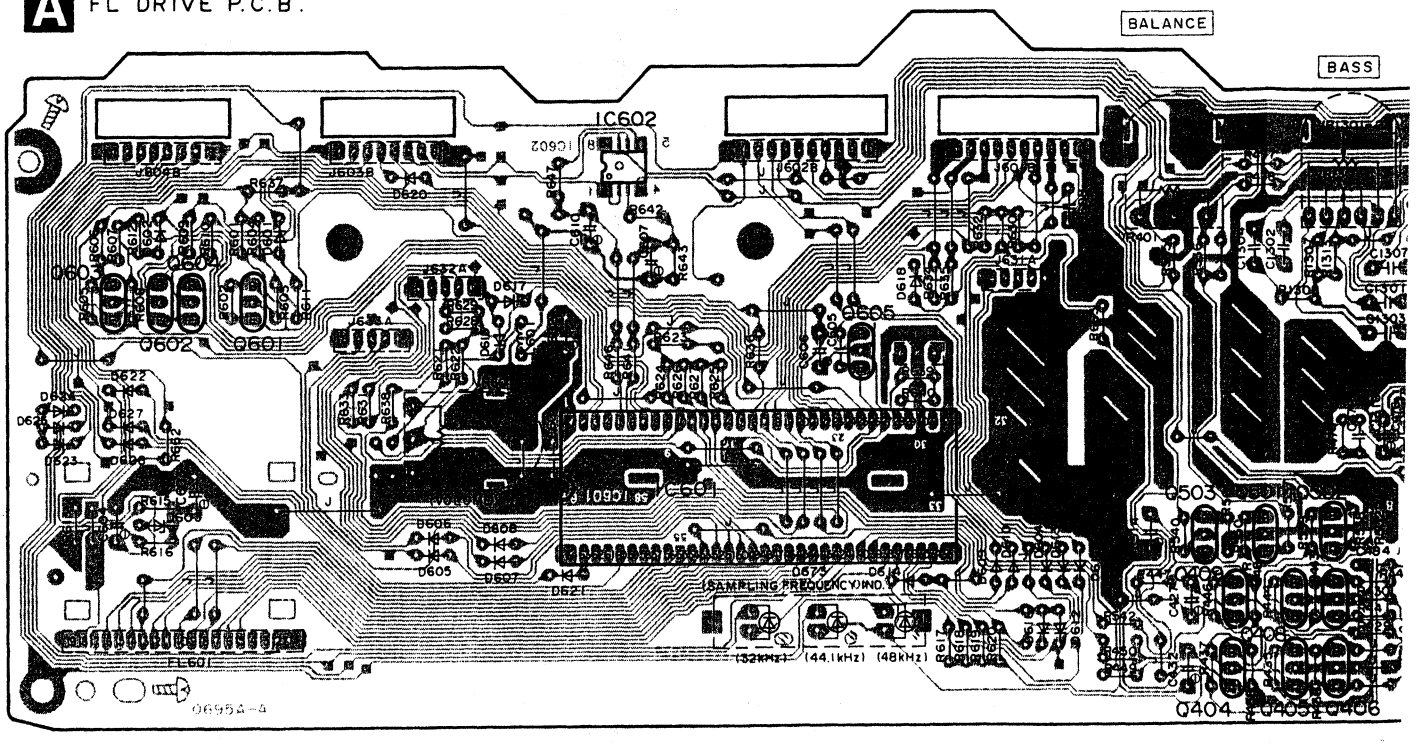



Power Source Circuit For [GN] area.

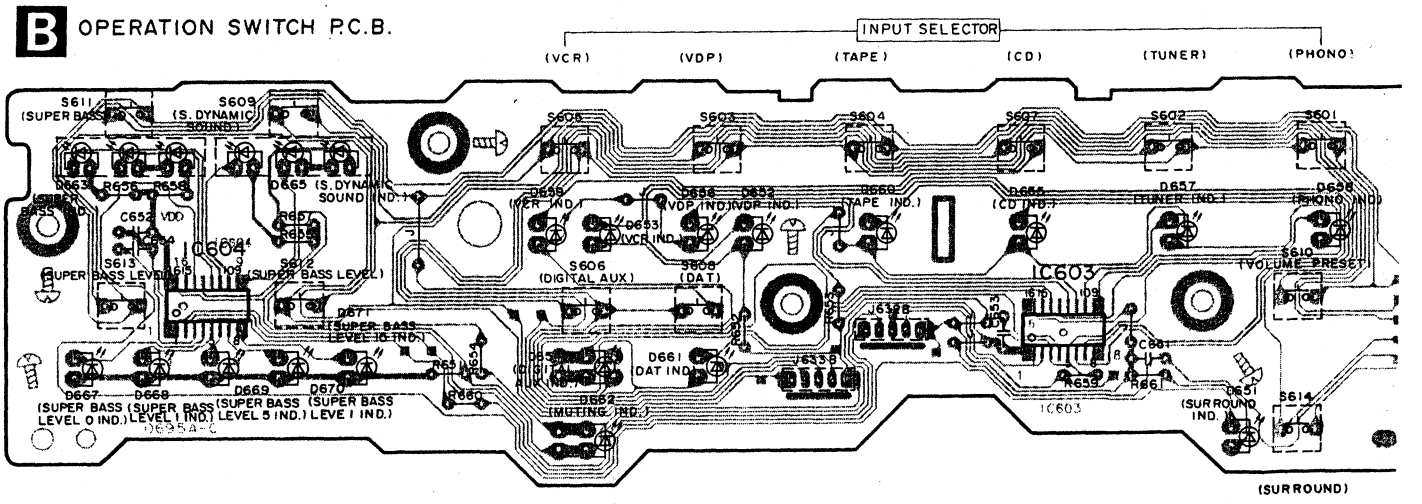


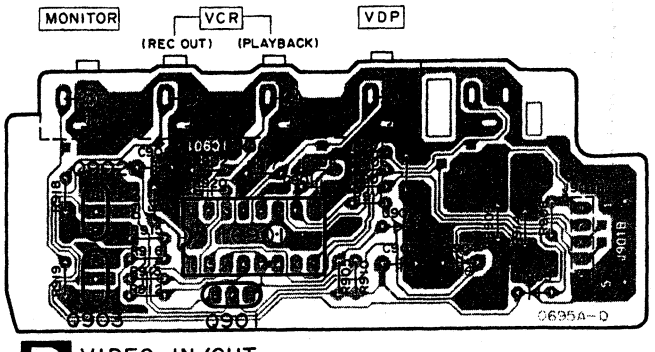
# ■ CIRCUIT BOARD DIAGRAM

**A** FL DRIVE P.C.B.




**B** OPERATION SWITCH P.C.B.

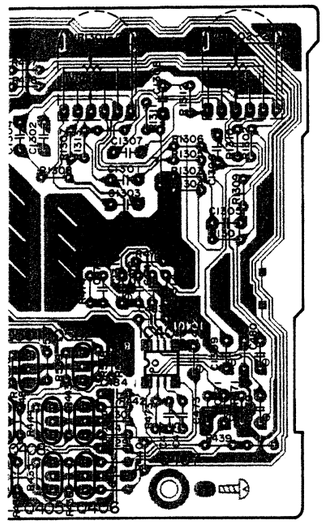


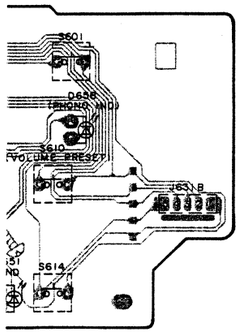

**D** VIDEO IN/OUT TERMINAL P.C.B.

5 6 7 8 9 10 11 12 13 14

BASS TREBLE

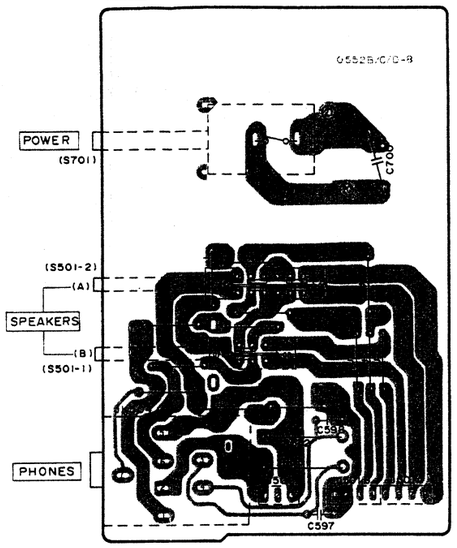


(PHONO)

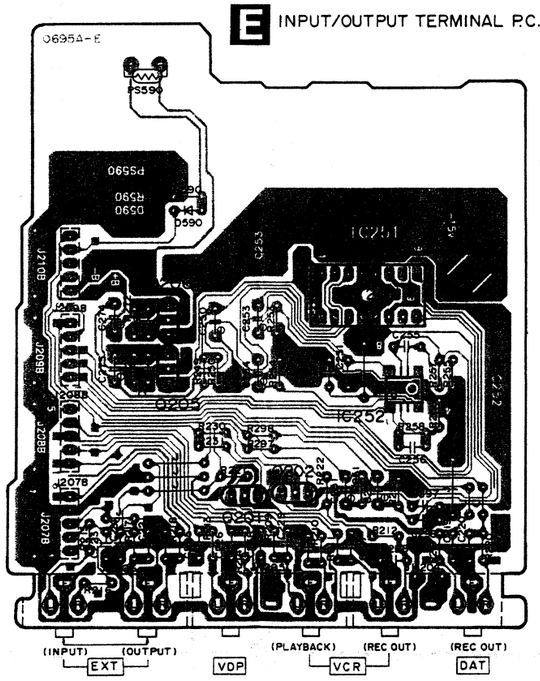



(SURROUND)

## H POWER SWITCH/HEADPHONES P.C.B.

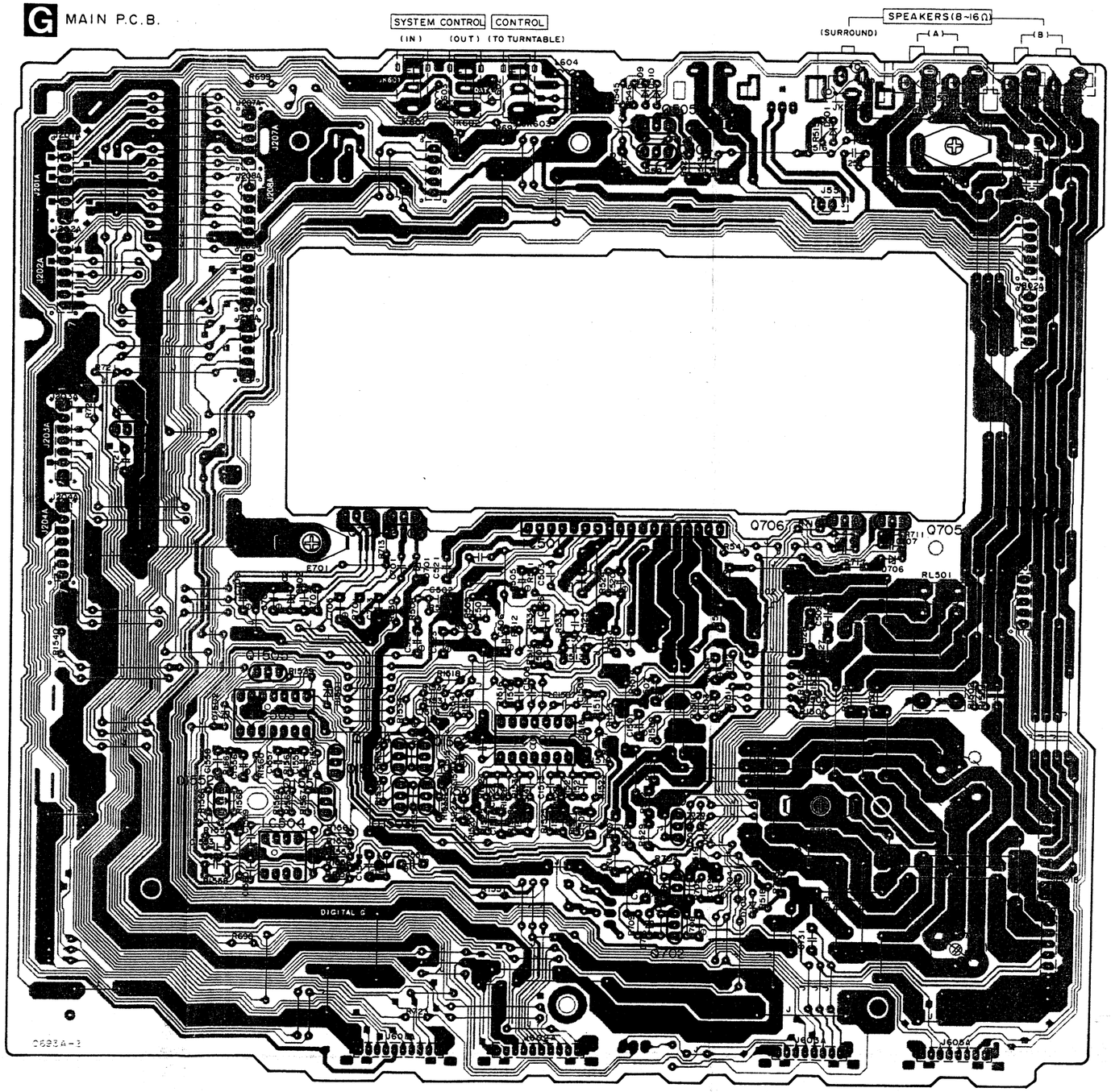



## E INPUT/OUTPUT TERMINAL P.C.B.






## G MAIN P.C.B.

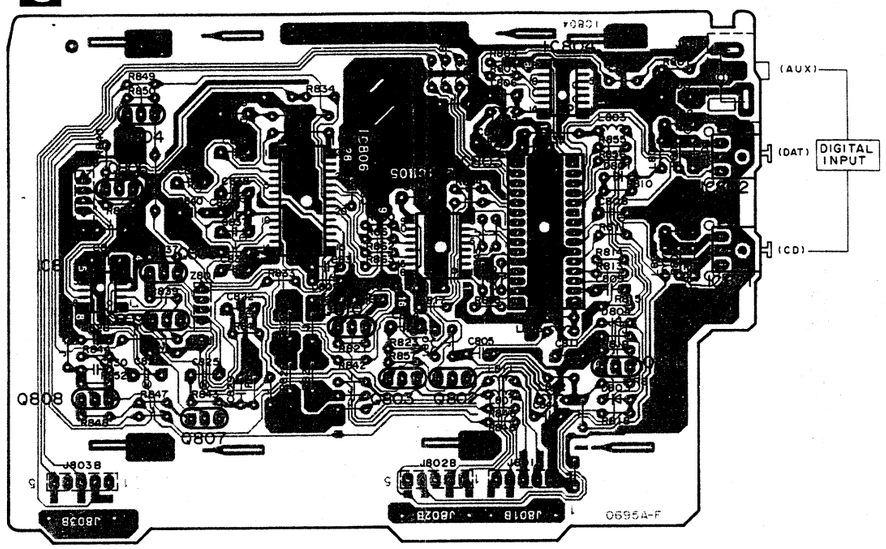


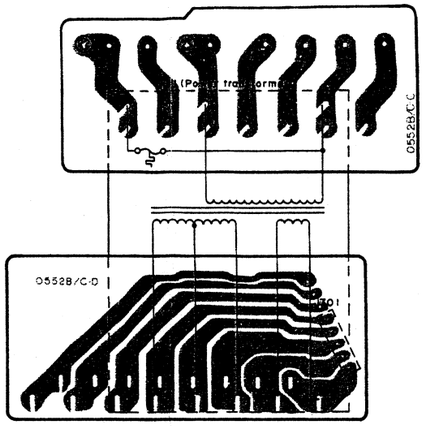
# ■ CIRCUIT BOARD DIAGRAM

1 2 3 4 5 6 7 8 9 10

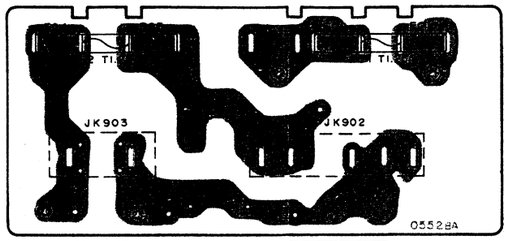
A B C D E F

**C** D/A CONVERTER P.C.B.

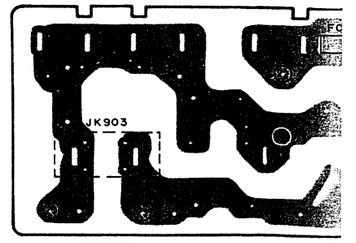


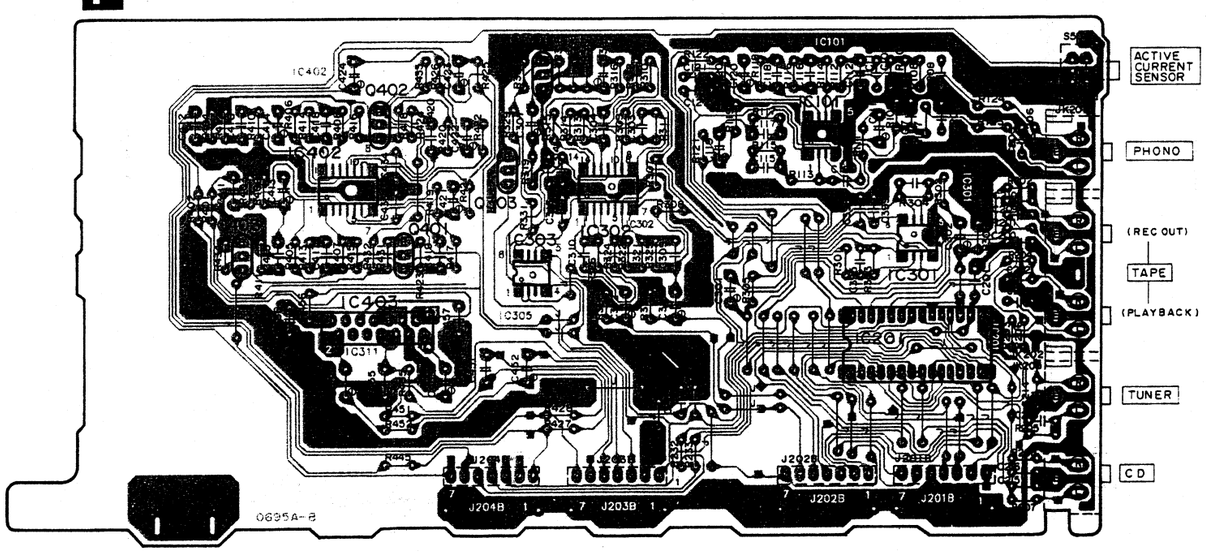

**I** AC IN/AC OUTLET P.C.B. FOR [E,EB,EG] AREAS.



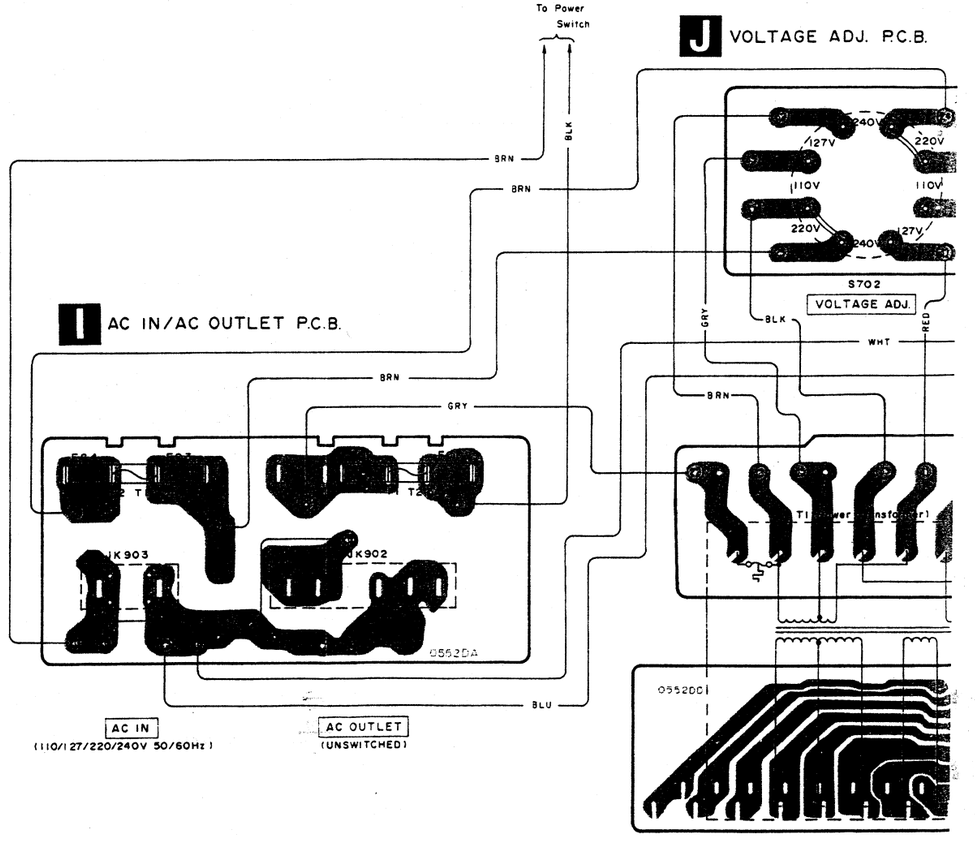

**I** AC IN/AC OUTLET P.C.B. FOR [G




**F** PHONO/TAPE/TUNER/CD TERMINAL P.C.B.



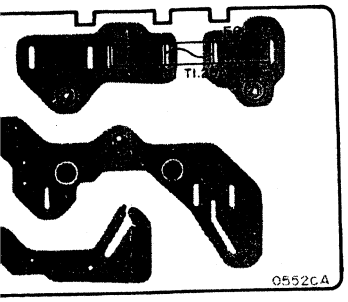

Power Source P.C.B. FOR [GC] area.

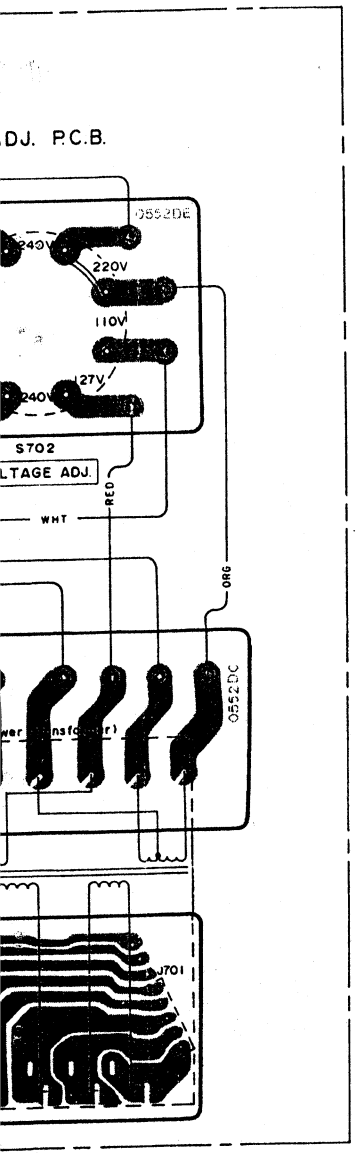


10 11 12 13 14

# ■ TERMINAL GUIDE OF IC'S, TRANSISTORS AND DIODES

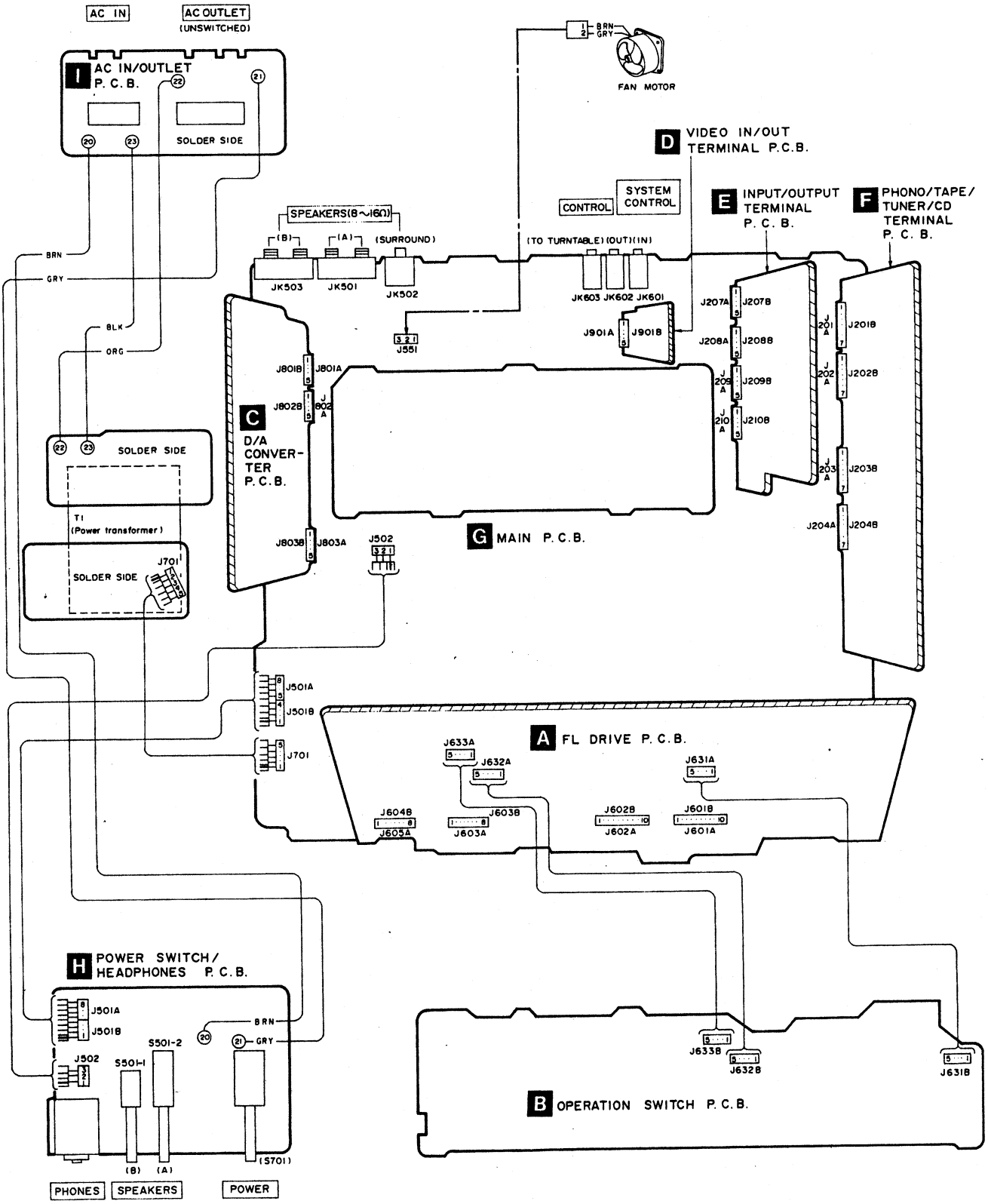
C.B. FOR [GN] AREA.




| | | | | |
|---|---|---|---|---|
| AN6558SFE2 | BA4558FDXT1<br>BA4560FT1 | AN6554NSFE2 | BU2040F-T2<br>MC74HCU04FEL | PCM1700U-T1 |
| M5218AP | AN6554F | TC4066B | M5283P | MC14052BCP |
| TC9164N | PD0052 | M50754-180SP | M51131L-702 | SVI3204 |
| GP1F32R | 2SA1309AQSTA<br>2SC3311AQSTA<br>2SC3312RSTA<br>2SD1450STTA<br>UN4215TA | | 2SD2144STA<br>DTA114ESTP<br>DTC114ESTP<br>DTC144ESTP | |
| 2SA992EFPTA<br>2SB621AQRSTA<br>2SC3114STUTA | 2SB1187DEF<br>2SD1761DEF | MA165TA<br>MA167TA<br>MA700TA<br>1SS291TA | | P300DLF |
| MA4043MTA<br>MA4047MTA<br>MA4051LTA<br>MA4051MTA | | MA4120MTA<br>MA4150MTA | LN473YP-C<br>LN873RP-C | LD701YY |
| LN038568PH | | | | |

# ■ WIRING CONNECTION DIAGRAM



# ■ FUNCTION OF IC TERMINALS

## •IC601

| Pin No. | Symbol | I/O | Function Description |
|---|---|---|---|
| 1 | VDD | I | +5 V |
| 2 | B. DATA OUT | O | Bus data signal out |
| 3 | B. CLK OUT | O | Bus clock signal out |
| 5 | S. BASS PWM | O | Super bass control signal output |
| 6 | VR PWM | O | Volume control signal output |
| 7 | B. DATA IN | I | Bus data signal input |
| 8 | B. CLK IN | I | Bus clock signal input |
| 9 | VRA | I | Rotary encoder (VR601) signal input (Volume control) |
| 10 | VRB | | |
| 11 ~ 13 | MUT3 ~ MUT1 | O | Muting control signal output |
| 15 | REC M | O | Muting control signal output for VTR recording |
| 16 | DATA | O | Data signal output |
| 17 | CLK | O | Clock signal output |
| 18 | STB1 | O | The serial data inputted in to IC201 is latched by the STB pulse and the switch is set to ON according to data |
| 19 | DATA2 | O | LED control signal output |
| 20 | CLK2 | O | Clock output for IC604 |
| 21 | PLSTOP | O | Player control signal output |
| 22 | $\overline{\text{PLST}}$/ $\overline{\text{PHONO}}$ | | |
| 23 | $\overline{\text{PSAY}}$ | | |
| 24 | $\overline{\text{HLT}}$/HST | I | Power supply detect signal input |
| 25 | DIR1 | I | Sumpling frequency detect signal input |
| 26 | CNVSS | — | GND |
| 27 | $\overline{\text{RESET}}$ | I | Reset signal input |
| 28 | X IN | I | Clock signal input |
| 29 | X OUT | O | Clock signal output |
| 32 | VSS | — | GND |
| 34 ~ 37 | KS3 ~ KS0 | I | Key scan signal input |
| 38 | VP | I | Pull down voltage detect signal input |
| 39 | S2 | O | Input select control signal output |
| 40 | S1 | | |
| 41 ~ 48 | S8 ~ S1 | O | FL drive signal output |
| 49 ~ 52 | K4 ~ K1 | | |
| 53 ~ 56 | G4 ~ G1 | | |
| 57 | SEL2 | O | LED control signal output |
| 58 | SEL1 | | |
| 60 | S. BASS. D | O | Super bass control signal output |
| 63 | SURR. D | O | Surround control signal output |

## •IC805

| Pin No. | Symbol | I/O | Function Description |
|---|---|---|---|
| 1 | X IN | I | Clock signal input |
| 2 | X OUT | O | Clock signal output |
| 3 | MODE1 | I | Master clock input |
| 4 | CK OUT | — | NC |
| 5 | LR CLK | I | LR clock input |
| 6 | DATA | I | Serial data input |
| 7 | BCK | I | Bit clock input |
| 8 | VSS | — | GND |
| 9 | MODE2 | I | Select the output data |
| 13 | MODE3 | | |

| MODE3 | MODE2 | OUTPUT DATA |
|---|---|---|
| H | H | 18 bit |
| | L | 16 bit |
| L | — | 20 bit |

| Pin No. | Symbol | I/O | Function Description |
|---|---|---|---|
| 10 | SHOUT | — | NC |
| 11 | LD OUT | O | Lch signal output |
| 12 | RD OUT | O | Rch signal output |
| 14 | W OUT | O | Ward clock output |
| 15 | B OUT | O | Bit clock output |
| 16 | VDD | I | To be connected to a power supply (+5 V) |





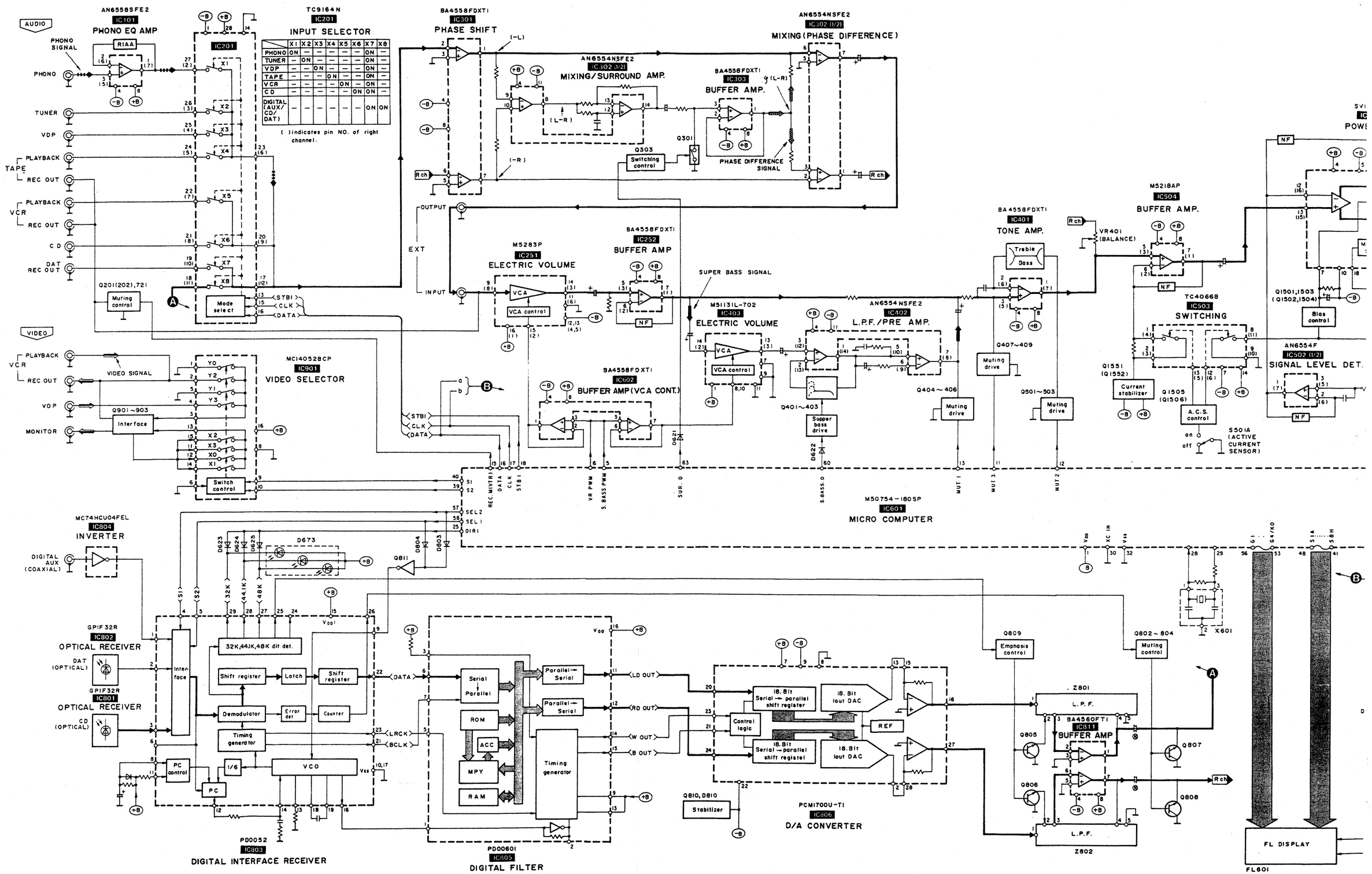
## •IC803

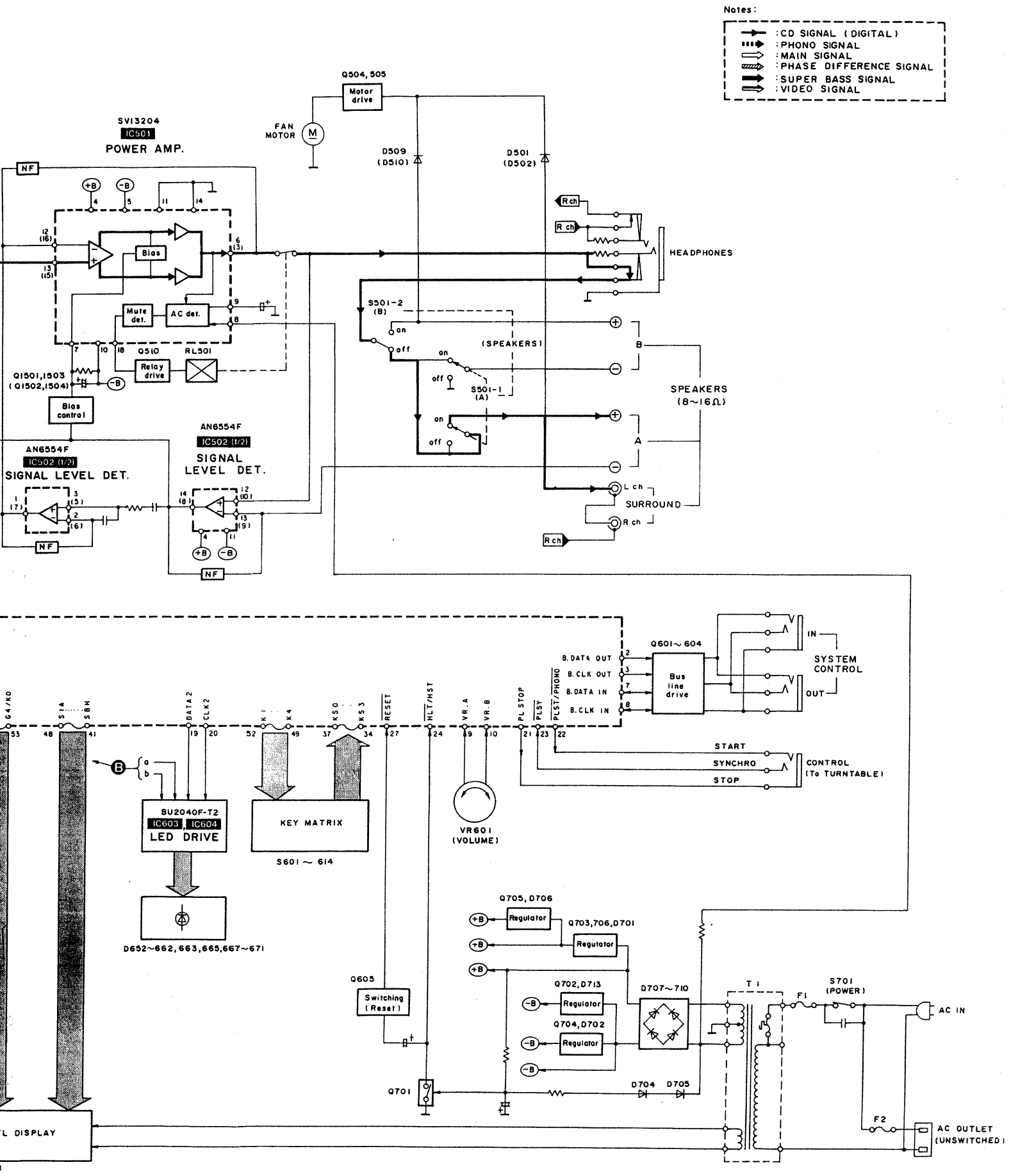
| Pin No. | Symbol | I/O | Function Description |
|---|---|---|---|
| 1 | IN1 | I | Digital audio interface signal input |
| 2 | IN2 | | |
| 3 | IN3 | | |
| 4 | S1 | I | Input select 1 |
| 5 | S2 | I | Input select 2 |
| 6 | OUT | O | Input data select signal out |
| 7 | $\overline{\text{TEST}}$ | I | ——— (VDD) |
| 8 | $\overline{\text{RESET}}$ | I | Reset signal input |
| 9 | VCOINH | I | VCO control signal input |
| 10 | VSS | — | Digital ground |
| 11 | PCVS | I | VCO control signal input |
| 12 | PCOUT | O | Phase comparative output |
| 13 | R | — | VCO adjustment (Resistor) |
| 14 | VCO IN | I | VCO control signal input |
| 15 | VDD1 | I | VCO VDD |
| 16 | VCO OUT | O | VCO output |
| 17 | VSS1 | — | VCO ground |
| 18 | CA | — | VCO adjustment (Capacitor) |
| 19 | CB | — | VCO adjustment (Capacitor) |
| 20 | MODE | — | L: 16 bit H: 20 bit |
| 21 | BCK | O | Data bit clock output |
| 22 | DATA | O | Audio data output |
| 23 | LRCK | O | Lch/Rch data output (H: Lch) |
| 24 | COPY | — | ——— |
| 25 | EMPH | O | Enphasis data output |
| 26 | ERR | O | PLL data error output (H: error) |
| 27 | 48K | O | Sampling frequency data output LED drive signal output |
| 28 | 44.1K | | |
| 29 | 32K | | |
| 30 | VDD | I | Digital VDD |

## •IC806

| Pin No. | Symbol | I/O | Function Description |
|---|---|---|---|
| 1 | A. GND | — | Analog ground |
| 2 | I OUT (R) | O | Current output (Rch) |
| 3 | BPO DC (R) | I | Offset filter (Rch) |
| 4 | MSB ADJ (R) | — | ——— |
| 5 | SERVO DC (R) | I | Servo filter (Rch) |
| 6 | V POT | — | ——— |
| 7 | VCC | I | Analog positive supply |
| 8 | D. GND | — | Digital ground |
| 9 | −VCC | I | Analog negative supply |
| 10 | SERVO DC (L) | I | Servo filter (Lch) |
| 11 | MSB ADJ (L) | — | ——— |
| 12 | BPO DC (L) | I | Offset filter (Lch) |
| 13 | I OUT (L) | O | Current output (Lch) |
| 14 | A. GND | — | Analog ground |
| 15 | S. J (L) | I | Summing junction (Lch) |
| 16 | V OUT (L) | O | Voltage output (Lch) |
| 17 | NC | — | ——— |
| 18 | VDD | I | Digital positive supply |
| 19 | NC | — | ——— |
| 20 | DATA (L) | I | Data input (Lch) |
| 21 | CLOCK | I | Clock input |
| 22 | −VDD | I | Digital negative supply |
| 23 | LEC | I | Latch enable control input |
| 24 | DATA (R) | I | Data input (Rch) |
| 25 | D. GND | — | Digital ground |
| 26 | NC | — | ——— |
| 27 | V OUT (R) | O | Voltage output (Rch) |
| 28 | S. J (R) | I | Summing junction (Rch) |

# ■ BLOCK DIAGRAM




Notes:
:CD SIGNAL (DIGITAL)
:PHONO SIGNAL
:MAIN SIGNAL
:PHASE DIFFERENCE SIGNAL
:SUPER BASS SIGNAL
:VIDEO SIGNAL
SVI3204
IC501
POWER AMP.
Q504, 505
Motor drive
FAN MOTOR
D509 (D510)
D501 (D502)
HEADPHONES
Bias
Mute det.
AC det.
Q510
RL501
Relay drive
Q1501,1503 (Q1502,1504)
Bias control
S501-2 (B)
S501-1 (A)
(SPEAKERS)
SPEAKERS (8~16Ω)
AN6554F
IC502 (1/2)
SIGNAL LEVEL DET.
SURROUND
L ch
R ch
NF
B. DATA OUT
B. CLK OUT
B. DATA IN
B. CLK IN
Q601~604
Bus line drive
IN
OUT
SYSTEM CONTROL
START
SYNCHRO
STOP
CONTROL (To TURNTABLE)
BU2040F-T2
IC603, IC604
LED DRIVE
KEY MATRIX
S601 ~ 614
VR601 (VOLUME)
D652~662, 663, 665, 667~671
Q705, D706
Regulator
Q703, 706, D701
Q702, D713
Q704, D702
D707~710
Q605
Switching (Reset)
Q701
D704
D705
T1
F1
F2
S701 (POWER)
AC IN
AC OUTLET (UNSWITCHED)
FL DISPLAY

# ■ REPLACEMENT PARTS LIST

Notes : • Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
• The parenthesized indications in the Remarks columns specify the areas. (Refer to the cover page for area.)
Parts without these indications can be used for all areas.

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| | | INTEGRATED CIRCUIT(S) | |
| | | | |
| IC101 | AN6558SFE2 | I. C, PHONO EQ AMP | |
| IC201 | TC9164N | I. C, INPUT SELECTOR | |
| IC251 | M5283P | I. C, ATTENUATOR | |
| IC252 | BA4558FDXT1 | I. C, BUFFER AMP | |
| IC301 | BA4558FDXT1 | I. C, PHASE SHIFT | |
| IC302 | AN6554NSFE2 | I. C, MIXING/SURROUND AMP | |
| IC303 | BA4558FDXT1 | I. C, BUFFER AMP | |
| IC401 | BA4558FDXT1 | I. C, TONE AMP | |
| IC402 | AN6554NSFE2 | I. C, L. P. F/PRE AMP | |
| IC403 | M51131L-702 | I. C, ELECTRIC VOLUME | |
| IC501 | SVI3204 | I. C, POWER AMP | |
| IC502 | AN6554F | I. C, SIGNAL LEVEL DET. | |
| IC503 | TC4066B | I. C, SWITCHING | |
| IC504 | M5218AP | I. C, BUFFER AMP | |
| IC601 | M50754-180SP | I. C, MICRO COMPUTER | |
| IC602 | BA4558FDXT1 | I. C, BUFFER AMP | |
| IC603, 604 | BU2040F-T2 | I. C, LED DRIVE | |
| IC801, 802 | GP1F32R | I. C, OPTICAL RECEIVER | |
| IC803 | PD0052 | I. C, DIGITAL INTERFACE | |
| IC804 | MC74HCU04FEL | I. C, INVERTER | |
| IC805 | PD00601 | I. C, DIGITAL FILTER | |
| IC806 | PCM1700U-T1 | I. C, D/A CONVERTER | |
| IC811 | SVIBA4560FT1 | I. C, BUFFER AMP | |
| IC901 | MC14052BCP | I. C, VIDEO SELECTOR | |
| | | | |
| | | TRANSISTOR(S) | |
| | | | |
| Q201, 202 | 2SD2144S | TRANSISTOR | |
| Q205 | 2SC3311A-Q | TRANSISTOR | |
| Q206 | 2SA1309A-R | TRANSISTOR | |
| Q301 | 2SD2144S | TRANSISTOR | |
| Q303 | DTA114ESTP | TRANSISTOR | |
| Q401, 402 | 2SD2144S | TRANSISTOR | |
| Q403 | DTA114ESTP | TRANSISTOR | |
| Q404 | DTA114ESTP | TRANSISTOR | |
| Q405-408 | 2SD2144S | TRANSISTOR | |
| Q409 | 2SA1309A-R | TRANSISTOR | |
| Q501, 502 | 2SD1450STTA | TRANSISTOR | |
| Q503 | 2SA1309A-R | TRANSISTOR | |
| Q504 | 2SC3311A-Q | TRANSISTOR | |
| Q505 | 2SA1309A-R | TRANSISTOR | |
| Q510 | 2SA992EFPTA | TRANSISTOR | |
| Q601 | 2SC3311A-Q | TRANSISTOR | |
| Q602 | DTC144EKT96 | TRANSISTOR | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| Q603 | 2SC3311A-Q | TRANSISTOR | |
| Q604 | DTC144EKT96 | TRANSISTOR | |
| Q605 | DTC114ESTP | TRANSISTOR | |
| Q701 | UN4215 | TRANSISTOR | |
| Q702 | 2SB621A-R | TRANSISTOR | |
| Q703 | 2SD1761DEF | TRANSISTOR | |
| Q704 | 2SB1187DEF | TRANSISTOR | |
| Q705, 706 | 2SD1761DEF | TRANSISTOR | |
| Q721 | DTA114ESTP | TRANSISTOR | |
| Q802, 803 | DTC114ESTP | TRANSISTOR | |
| Q804 | DTA114ESTP | TRANSISTOR | |
| Q805, 806 | 2SC3114STUTA | TRANSISTOR | |
| Q807, 808 | 2SD2144S | TRANSISTOR | |
| Q809 | DTA114ESTP | TRANSISTOR | |
| Q810 | 2SC3311A-Q | TRANSISTOR | |
| Q811 | DTC114ESTP | TRANSISTOR | |
| Q901 | 2SA1309A-R | TRANSISTOR | |
| Q902, 903 | 2SC3311A-Q | TRANSISTOR | |
| Q1501-1504 | 2SA1309A-R | TRANSISTOR | |
| Q1505 | DTC114ESTP | TRANSISTOR | |
| Q1506 | DTA114ESTP | TRANSISTOR | |
| Q1551, 1552 | 2SC3312RSTA | TRANSISTOR | |
| | | | |
| | | DIODE(S) | |
| | | | |
| D501, 502 | MA167 | DIODE | |
| D504 | MA4051MTA | DIODE | |
| D507, 508 | MA4120 | DIODE | |
| D509, 510 | MA167 | DIODE | |
| D590 | MA165 | DIODE | |
| D601, 602 | MA700 | DIODE | |
| D603 | MA4047MTA | DIODE | |
| D604-614 | MA165 | DIODE | |
| D615 | 1SS291TA | DIODE | |
| D616-618 | MA165 | DIODE | |
| D620-625 | MA165 | DIODE | |
| D627, 628 | MA165 | DIODE | |
| D651 | LN873RP-C | LED | |
| D652, 653 | LN473YP-C | LED | |
| D654-662 | LN873RP-C | LED | |
| D663 | LD701YY | DIODE | |
| D665 | LD701YY | DIODE | |
| D667-671 | LN873RP-C | LED | |
| D673 | LN038568PH | LED | |
| D701, 702 | MA4150M | DIODE | |
| D703 | MA165 | DIODE | |
| D704, 705 | MA167 | DIODE | |





| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| D706 | MA4062-H | DIODE | |
| D707-710⚠ | P300DLF | DIODE | |
| D713 | MA4240H | DIODE | |
| D801 | MA165 | DIODE | |
| D803, 804 | MA165 | DIODE | |
| D809 | MA4051-L | DIODE | |
| D810 | MA4043M | DIODE | |
| D901 | MA4047MTA | DIODE | |
| D902, 903 | MA165 | DIODE | |
| D1501, 1502 | MA4082MTA | DIODE | |
| | | | |
| | | VARIABLE RESISTOR(S) | |
| | | | |
| VR401 | EWHFDAF20G15 | V. R, BALANCE | |
| VR601 | EVQWQAF2524B | V. R, VOLUME | |
| VR1301 | EWC2XAF20C15 | V. R, BASS | |
| VR1302 | EWC2XAF20C15 | V. R, TREBLE | |
| | | | |
| | | POSISTOR(S) | |
| | | | |
| PS590 | SRPBD47101 | POSISTOR | |
| | | | |
| | | COMPONENT COMBINATION(S) | |
| | | | |
| Z801, 802 | H8DN2041B | COMPONENT COMBINATION | |
| | | | |
| | | COIL(S) | |
| | | | |
| L501, 502 | SLQY07G-40 | COIL | |
| L601 | ELEXT100KA9 | COIL | |
| L602, 603 | RLQZP101KT-Y | COIL | |
| L800, 801 | RLQZP470KT-Y | COIL | |
| L802 | RLQZP101KT-Y | COIL | |
| L803 | RLQZP3R3KT-Y | COIL | |
| L804 | RLQZP1R2KT-Y | COIL | |
| L805 | RLQZP3R3KT-Y | COIL | |
| L806 | RLQZP1R2KT-Y | COIL | |
| L807 | RLQZP3R3KT-Y | COIL | |
| L808-810 | RLQZP1R2KT-Y | COIL | |
| L811 | RLQZP3R3KT-Y | COIL | |
| | | | |
| | | TRANSFORMER(S) | |
| | | | |
| T1 ⚠ | RTP1N5E010-W | POWER TRANSFORMER | (E, EG) |
| T1 ⚠ | SLT5N483-W | POWER TRANSFORMER | (GC) |
| T1 ⚠ | SLT5N481-W | POWER TRANSFORMER | (EB, GN) |
| | | | |
| | | OSCILLATOR(S) | |
| | | | |
| X601 | EF0GC6004T4 | CERAMIC FILTER | |
| | | | |
| | | | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| | | DISPLAY TUBE | |
| | | | |
| FL601 | RSL0074-F | DISPLAY TUBE | |
| | | | |
| | | FUSE(S) | |
| | | | |
| F1 ⚠ | XBA2C12TB0S | FUSE | (E, EB, EG, GC) |
| F1 ⚠ | XBA2C25TB0 | FUSE | (GC) |
| F2 ⚠ | XBA2C12TB0S | FUSE | (E, EB, EG, GC) |
| | | | |
| | | SWITCH(ES) | |
| | | | |
| S501A | RSS2B006-M | SW, ACTIVE CURRENT SENSOR | |
| S501 | SSH2128 | SW, SPEAKER ON/OFF | |
| S601 | EVQ21405R | SW, PHONO | |
| S602 | EVQ21405R | SW, TUNER | |
| S603 | EVQ21405R | SW, VDP | |
| S604 | EVQ21405R | SW, TAPE | |
| S605 | EVQ21405R | SW, VCR | |
| S606 | EVQ21405R | SW, DIGITAL AUX | |
| S607 | EVQ21405R | SW, CD | |
| S608 | EVQ21405R | SW, DAT | |
| S609 | EVQ21405R | SW, S. DYNAMIC SOUND | |
| S610 | EVQ21405R | SW, VOLUME PRESET | |
| S611 | EVQ21405R | SW, SUPER BASS | |
| S612 | EVQ21405R | SW, SUPER BASS LEVEL UP | |
| S613 | EVQ21405R | SW, SUPER BASS LEVEL DOWN | |
| S614 | EVQ21405R | SW, SURROUND | |
| S701 ⚠ | ESB8249V | SW, POWER | |
| S702 ⚠ | ESE37263 | SW, VOLTAGE SELECTOR | |
| | | | |
| | | JACK(S) | |
| | | | |
| J502 | RJS1A1703 | CONNECTOR(3P) | |
| J551 | SJT3213 | CONNECTOR(3P) | |
| J701 | RJS1A1705 | CONNECTOR(5P) | |
| J201A | RJU060G07T | SOCKET | |
| J202A | RJU060G07T | SOCKET | |
| J203A | RJU060G07T | SOCKET | |
| J204A | RJU060G07T | SOCKET | |
| J207A | RJU060G05T | SOCKET | |
| J208A | RJU060G05T | SOCKET | |
| J209A | RJU060G05T | SOCKET | |
| J210A | RJU060G05T | SOCKET | |
| J501A | RJS1A1704 | CONNECTOR(4P) | |
| J601A | RJU003K010M1 | SOCKET(10P) | |
| J602A | RJU003K010M1 | SOCKET(10P) | |
| J603A | RJU003K008M1 | SOCKET(8P) | |
| J605A | RJU003K008M1 | SOCKET(8P) | |
| J631A | SJT30549BB1 | CONNECTOR | |
| J632A | SJT30549BB1 | CONNECTOR | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| J633A | SJT30549BB1 | CONNECTOR | |
| J801A | RJU060G05T | SOCKET | |
| J802A | RJU060G05T | SOCKET | |
| J803A | RJU060G05T | SOCKET | |
| J901A | RJU060G05T | SOCKET | |
| J201B | RJT060B07 | CONNECTOR | |
| J202B | RJT060B07 | CONNECTOR | |
| J203B | RJT060B07 | CONNECTOR | |
| J204B | RJT060B07 | CONNECTOR | |
| J207B | RJT060B05 | CONNECTOR | |
| J208B | RJT060B05 | CONNECTOR | |
| J209B | RJT060B05 | CONNECTOR | |
| J210B | RJT060B05 | CONNECTOR | |
| J501B | RJS1A1704 | SOCKET(4P) | |
| J601B | RJT003K010M1 | CONNECTOR(10P) | |
| J602B | RJT003K010M1 | CONNECTOR(10P) | |
| J603B | RJT003K008M1 | CONNECTOR(8P) | |
| J604B | RJT003K008M1 | CONNECTOR(8P) | |
| J631B | SJS50581BB | SOCKET(5P) | |
| J632B | SJS50581BB | SOCKET(5P) | |
| J633B | SJS50581BB | SOCKET(5P) | |
| J801B | RJT060B05 | CONNECTOR | |
| J802B | RJT060B05 | CONNECTOR | |
| J803B | RJT060B05 | CONNECTOR | |
| J901B | RJT060B05 | CONNECTOR | |
| | | | |
| | | JACK(S) | |
| | | | |
| JK201 | SJF3068N | TERMINAL, PHONO | |
| JK202 | SJF3069-5N | TERMINAL, TAPE | |
| JK203 | SJF3069N | TERMINAL, TUNER/CD | |
| JK204 | SJF3069N | TERMINAL, DAT/VCR | |
| JK205 | SJF3069-5N | TERMINAL, VCR/VDP | |
| JK206 | SJF3069N | TERMINAL, EXT | |
| JK501 | RJR0054M | TERMINAL, SPEAKER A | |
| JK502 | SJF3068-6N | TERMINAL, SPEAKER SURROUND | |
| JK503 | RJR0054M | TERMINAL, SPEAKER B | |
| JK504 | SJJ145A-1 | JACK, HEADPHONES | |
| JK601 | RJJ33T01 | SYNCHRO, SYSTEM CONT. IN | |
| JK602 | RJJ33T01 | SYNCHRO, SYSTEM CONT. OUT | |
| JK603 | RJJ33T01 | SYNCHRO, CONTROL TO TURNTABL | |
| JK801 | SJFD7-2 | TERMINAL, DIGITAL INPUT | |
| JK901 | SJF3061N | MONITOR, VCR/VDP | |
| JK902 ⚠ | SJS9333B | AC OUTLET | (E, EG) |
| JK902 ⚠ | SJS9233B | AC OUTLET | (GC) |
| JK902 ⚠ | SJS9332B | AC OUTLET | (EB) |
| JK903 ⚠ | SJS9231-1B | AC INLET | (E, EB, EG, GC) |
| JK903 ⚠ | SJS9234B | AC INLET | (GN) |
| | | | |
| | | FUSE HOLDER | |
| | | | |
| FC1, 2 ⚠ | SJT388 | FUSE HOLDER | |

| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| FC3, 4 ⚠ | SJT388 | FUSE HOLDER | (E, EB, EG, GC) |
| | | | |
| | | RELAY | |
| | | | |
| RL501 | SSY134 | RELAY | |





Notes : • Capacity valuse are in microfarads (uf) unless specified otherwise, P=Pico-farads(pF) F=Farads(F)
• Resistance values are in ohms, unless specified otherwise, 1K=1,000(OHM) , 1M=1,000k(OHM)

| Ref. No. | Part No. | Values & Remarks |
|---|---|---|
| | | |
| | | RESISTORS |
| | | |
| R107, 108 | ERDS2TJ471 | 1/4W 470 |
| R109, 110 | ERDS2TJ473 | 1/4W 47K |
| R111, 112 | ERDS2TJ331 | 1/4W 330 |
| R113, 114 | ERDS2TJ560T | 1/4W 56 |
| R115, 116 | ERDS2TJ184T | 1/4W 180K |
| R117, 118 | ERDS2TJ123 | 1/4W 12K |
| R119, 120 | ERDS2TJ224T | 1/4W 220K |
| R121, 122 | ERDS2TJ102 | 1/4W 1K |
| R123, 124 | ERDS2TJ471 | 1/4W 470 |
| R201, 202 | ERDS2TJ472 | 1/4W 4.7K |
| R203-206 | ERDS2TJ102 | 1/4W 1K |
| R207, 208 | ERDS2TJ822 | 1/4W 8.2K |
| R209, 210 | ERDS2TJ102 | 1/4W 1K |
| R211, 212 | ERDS2TJ821 | 1/4W 820 |
| R213, 214 | ERDS2TJ822 | 1/4W 8.2K |
| R215-218 | ERDS2TJ102 | 1/4W 1K |
| R219, 220 | ERDS2TJ222 | 1/4W 2.2K |
| R221, 222 | ERDS2TJ392T | 1/4W 3.9K |
| R230, 231 | ERDS2TJ102 | 1/4W 1K |
| R232, 233 | ERDS2TJ272T | 1/4W 2.7K |
| R249 | ERDS2TJ103 | 1/4W 10K |
| R250 | ERDS2TJ223 | 1/4W 22K |
| R251, 252 | ERDS2TJ473 | 1/4W 47K |
| R253, 254 | ERDS2TJ183T | 1/4W 18K |
| R255, 256 | ERDS2TJ153 | 1/4W 15K |
| R257, 258 | ERDS2TJ473 | 1/4W 47K |
| R271, 272 | ERDS2TJ152 | 1/4W 1.5K |
| R297, 298 | ERDS2TJ182 | 1/4W 1.8K |
| R301-304 | ERDS2TJ223 | 1/4W 22K |
| R305, 306 | ERDS2TJ224T | 1/4W 220K |
| R307, 308 | ERDS2TJ332 | 1/4W 3.3K |
| R309, 310 | ERDS2TJ223 | 1/4W 22K |
| R311, 312 | ERDS2TJ393 | 1/4W 39K |
| R313-315 | ERDS2TJ223 | 1/4W 22K |
| R316 | ERDS2TJ622T | 1/4W 6.2K |
| R317 | ERDS2TJ562 | 1/4W 5.6K |
| R318 | ERDS2TJ123 | 1/4W 12K |
| R319 | ERDS2TJ224T | 1/4W 220K |
| R321, 322 | ERDS2TJ332 | 1/4W 3.3K |
| R324 | ERDS2TJ332 | 1/4W 3.3K |
| R325, 326 | ERDS2TJ392T | 1/4W 3.9K |
| R327, 328 | ERDS2TJ104 | 1/4W 100K |
| R329 | ERDS2TJ332 | 1/4W 3.3K |
| R331 | ERDS2TJ105T | 1/4W 1M |
| R332 | ERDS2TJ334 | 1/4W 330K |
| R401, 402 | ERDS2TJ123 | 1/4W 12K |

| Ref. No. | Part No. | Values & Remarks |
|---|---|---|
| R403, 404 | ERDS2TJ683 | 1/4W 68K |
| R405, 406 | ERDS2TJ393 | 1/4W 39K |
| R407, 408 | ERDS2TJ333 | 1/4W 33K |
| R409, 410 | ERDS2TJ103 | 1/4W 10K |
| R411, 412 | ERDS2TJ332 | 1/4W 3.3K |
| R413, 414 | ERDS2TJ153 | 1/4W 15K |
| R415, 416 | ERDS2TJ222 | 1/4W 2.2K |
| R417, 418 | ERDS2TJ221 | 1/4W 220 |
| R419, 420 | ERDS2TJ273 | 1/4W 27K |
| R421, 422 | ERDS2TJ470 | 1/4W 47 |
| R423, 424 | ERDS2TJ153 | 1/4W 15K |
| R425-428 | ERDS2TJ152 | 1/4W 1.5K |
| R429, 430 | ERDS2TJ333 | 1/4W 33K |
| R431, 432 | ERDS2TJ102 | 1/4W 1K |
| R433 | ERDS2TJ105T | 1/4W 1M |
| R434 | ERDS2TJ334 | 1/4W 330K |
| R435, 436 | ERDS2TJ102 | 1/4W 1K |
| R437 | ERDS2TJ105T | 1/4W 1M |
| R438 | ERDS2TJ334 | 1/4W 330K |
| R439, 440 | ERDS2TJ152 | 1/4W 1.5K |
| R441, 442 | ERDS2TJ222 | 1/4W 2.2K |
| R443, 444 | ERDS2TJ102 | 1/4W 1K |
| R445 | ERDS2TJ222 | 1/4W 2.2K |
| R446 | ERDS2TJ104 | 1/4W 100K |
| R447 | ERDS2TJ334 | 1/4W 330K |
| R448 | ERDS2TJ105T | 1/4W 1M |
| R449 | ERDS2TJ332 | 1/4W 3.3K |
| R450 | ERDS2TJ103 | 1/4W 10K |
| R451, 452 | ERDS2TJ472 | 1/4W 4.7K |
| R455 | ERDS2TJ103 | 1/4W 10K |
| R456 | ERDS2TJ151 | 1/4W 150 |
| R471-474 | ERDS2TJ334 | 1/4W 330K |
| R477, 478 | ERDS2TJ102 | 1/4W 1K |
| R500 | ERDS2TJ100 | 1/4W 10 |
| R501 | ERDS2TJ104 | 1/4W 100K |
| R502 | ERDS2TJ105T | 1/4W 1M |
| R507, 508 | ERDS2TJ222 | 1/4W 2.2K |
| R509, 510 | ERDS2TJ563 | 1/4W 56K |
| R511, 512 | ERDS2TJ182 | 1/4W 1.8K |
| R513, 514 | ERDS2TJ563 | 1/4W 56K |
| R515, 516 | ERDS2TJ223 | 1/4W 22K |
| R517 | ERDS2TJ563 | 1/4W 56K |
| R518 | ERDS2TJ684 | 1/4W 680K |
| R519 | ERDS2TJ154 | 1/4W 150K |
| R520 | ERDS2TJ153 | 1/4W 15K |
| R521 | ERDS2TJ103 | 1/4W 10K |
| R522 | ERDS1FVJ680T | 1/2W 68 ⚠ |
| R524 | ERDS2TJ105T | 1/4W 1M |
| R525, 526 | ERD25FVJ100T | 1/4W 10 ⚠ |

| Ref. No. | Part No. | Values & Remarks |
|---|---|---|
| R527, 528 | ERDS1FVJ100T | 1/2W 10 ⚠ |
| R529 | ERG1SJ271E | 1W 270 |
| R530 | ERDS2TJ223 | 1/4W 22K |
| R531, 532 | ERG2SJ331P | 2W 330 |
| R533, 534 | ERDS2TJ562 | 1/4W 5.6K |
| R535-538 | ERDS2TJ472 | 1/4W 4.7K |
| R539 | ERDS2TJ102 | 1/4W 1K |
| R540 | ERDS2TJ334 | 1/4W 330K |
| R541 | ERDS2TJ473 | 1/4W 47K |
| R542 | ERDS2TJ103 | 1/4W 10K |
| R543 | ERDS1FVJ560T | 1/2W 56 ⚠ |
| R545, 546 | ERDS2TJ223 | 1/4W 22K |
| R550 | ERDS2TJ102 | 1/4W 1K |
| R551 | ERDS2TJ104 | 1/4W 100K |
| R552 | ERG1SJ271E | 1W 270 |
| R553 | ERG1SJ221E | 1W 220 |
| R554 | ERD25FJ470 | 1/4W 47 ⚠ |
| R590 | ERDS2TJ392T | 1/4W 3.9K |
| R601 | ERDS2TJ223 | 1/4W 22K |
| R602-604 | ERDS2TJ393 | 1/4W 39K |
| R605 | ERDS2TJ223 | 1/4W 22K |
| R606-608 | ERDS2TJ393 | 1/4W 39K |
| R609-612 | ERDS2TJ100 | 1/4W 10 |
| R613 | ERDS2TJ6R8 | 1/4W 6.8 |
| R615, 616 | ERDS2TJ151 | 1/4W 150 |
| R617-620 | ERDS2TJ104 | 1/4W 100K |
| R621, 622 | ERDS2TJ103 | 1/4W 10K |
| R623 | ERDS2TJ222 | 1/4W 2.2K |
| R624 | ERDS2TJ332 | 1/4W 3.3K |
| R625 | ERDS2TJ103 | 1/4W 10K |
| R626 | ERDS2TJ332 | 1/4W 3.3K |
| R627 | ERDS2TJ222 | 1/4W 2.2K |
| R628 | ERDS2TJ332 | 1/4W 3.3K |
| R629 | ERDS2TJ103 | 1/4W 10K |
| R630 | ERDS2TJ102 | 1/4W 1K |
| R631 | ERDS2TJ103 | 1/4W 10K |
| R632 | ERDS2TJ222 | 1/4W 2.2K |
| R633 | ERDS2TJ103 | 1/4W 10K |
| R634 | ERDS2TJ822 | 1/4W 8.2K |
| R635 | ERDS2TJ393 | 1/4W 39K |
| R636 | ERDS2TJ332 | 1/4W 3.3K |
| R637 | ERDS2TJ103 | 1/4W 10K |
| R638 | ERDS2TJ104 | 1/4W 100K |
| R639 | ERDS2TJ105T | 1/4W 1M |
| R640 | ERDS2TJ102 | 1/4W 1K |
| R641 | ERDS2TJ223 | 1/4W 22K |
| R642 | ERDS2TJ103 | 1/4W 10K |
| R643 | ERDS2TJ105T | 1/4W 1M |
| R646 | ERDS2TJ223 | 1/4W 22K |

| Ref. No. | Part No. | Values & Remarks |
|---|---|---|
| R647 | ERDS2TJ103 | 1/4W 10K |
| R651 | ERDS2TJ331 | 1/4W 330 |
| R652 | ERDS2TJ181T | 1/4W 180 |
| R653, 654 | ERDS2TJ331 | 1/4W 330 |
| R655, 656 | ERDS2TJ181T | 1/4W 180 |
| R657, 658 | ERDS2TJ390 | 1/4W 39 |
| R659, 660 | ERDS2TJ272T | 1/4W 2.7K |
| R661 | ERDS2TJ331 | 1/4W 330 |
| R662 | ERDS2TJ101 | 1/4W 100 |
| R663 | ERDS2TJ331 | 1/4W 330 |
| R697-699 | ERDS2TJ101 | 1/4W 100 |
| R701, 702 | ERDS1FVJ332T | 1/2W 3.3K ⚠ |
| R703 | ERD25FJ101 | 1/4W 100 ⚠ |
| R704 | ERDS2TJ473 | 1/4W 47K |
| R705 | ERDS2TJ103 | 1/4W 10K |
| R706 | ERDS1FVJ2R2T | 1/2W 2.2 ⚠ |
| R707 | ERDS1FVJ3R3T | 1/2W 3.3 ⚠ |
| R709 | ERDS2TJ332 | 1/4W 3.3K |
| R710 | ERDS1FVJ331T | 1/2W 330 ⚠ |
| R711 | ERDS2TJ102 | 1/4W 1K |
| R713 | ERDS2TJ2R2T | 1/4W 2.2 |
| R716 | ERDS2TJ2R2T | 1/4W 2.2 |
| R717 | ERDS2TJ150T | 1/4W 15 |
| R721, 722 | ERDS2TJ334 | 1/4W 330K |
| R723 | ERDS2TJ472 | 1/4W 4.7K |
| R727 | ERDS2TJ104 | 1/4W 100K |
| R801 | ERDS2TJ750 | 1/4W 75 |
| R803 | ERDS2TJ104 | 1/4W 100K |
| R804 | ERDS2TJ182 | 1/4W 1.8K |
| R805 | ERDS2TJ122 | 1/4W 1.2K |
| R809 | ERDS2TJ122 | 1/4W 1.2K |
| R810 | ERDS2TJ103 | 1/4W 10K |
| R811 | ERDS2TJ102 | 1/4W 1K |
| R813 | ERDS2TJ102 | 1/4W 1K |
| R814 | ERDS2TJ103 | 1/4W 10K |
| R815 | ERDS2TJ560T | 1/4W 56 |
| R816 | ERDS2TJ472 | 1/4W 4.7K |
| R817-819 | ERDS2TJ473 | 1/4W 47K |
| R821 | ERDS2TJ101 | 1/4W 100 |
| R823 | ERDS2TJ472 | 1/4W 4.7K |
| R827 | ERDS1FVJ271T | 1/2W 270 ⚠ |
| R828 | ERDS1FVJ680T | 1/2W 68 ⚠ |
| R829 | ERDS1FVJ820T | 1/2W 82 ⚠ |
| R833, 834 | ERDS2TJ221 | 1/4W 220 |
| R837, 838 | ERDS2TJ474 | 1/4W 470K |
| R839, 840 | ERDS2TJ102 | 1/4W 1K |
| R841 | ERDS2TJ104 | 1/4W 100K |
| R842-844 | ERDS2TJ272T | 1/4W 2.7K |
| R845-848 | ERDS2TJ471 | 1/4W 470 |
| R849 | ERDS2TJ105T | 1/4W 1M |
| R850 | ERDS2TJ182 | 1/4W 1.8K |
| R851, 852 | ERDS2TJ392T | 1/4W 3.9K |

| Ref. No. | Part No. | Values & Remarks |
|---|---|---|
| R855, 856 | ERDS2TJ103 | 1/4W 10K |
| R857 | ERDS2TJ471 | 1/4W 470 |
| R858 | ERDS2TJ182 | 1/4W 1.8K |
| R860-864 | ERDS2TJ101 | 1/4W 100 |
| R901, 902 | ERDS2TJ471 | 1/4W 470 |
| R904, 905 | ERDS2TJ392T | 1/4W 3.9K |
| R906, 907 | ERDS2TJ103 | 1/4W 10K |
| R908 | ERDS2TJ182 | 1/4W 1.8K |
| R909 | ERG1SJ151E | 1W 150 |
| R910 | ERDS2TJ102 | 1/4W 1K |
| R911 | ERDS2TJ392T | 1/4W 3.9K |
| R912, 913 | ERDS2TJ470 | 1/4W 47 |
| R914 | ERDS1FVJ101T | 1/2W 100 ⚠ |
| R915, 916 | ERDS2TJ561 | 1/4W 560 |
| R917 | ERDS2TJ471 | 1/4W 470 |
| R918, 919 | ERDS2TJ470 | 1/4W 47 |
| R920 | ERDS2TJ393 | 1/4W 39K |
| R1301, 1302 | ERDS2TJ102 | 1/4W 1K |
| R1303, 1304 | ERDS2TJ822 | 1/4W 8.2K |
| R1305, 1306 | ERDS2TJ223 | 1/4W 22K |
| R1307, 1308 | ERDS2TJ392T | 1/4W 3.9K |
| R1309, 1310 | ERDS2TJ182 | 1/4W 1.8K |
| R1311, 1312 | ERDS2TJ821 | 1/4W 820 |
| R1313, 1314 | ERDS2TJ333 | 1/4W 33K |
| R1501, 1502 | ERDS2TJ123 | 1/4W 12K |
| R1503, 1504 | ERDS2TJ103 | 1/4W 10K |
| R1505, 1506 | ERDS2TJ101 | 1/4W 100 |
| R1507, 1508 | RREEMKR10VC | 2W 0.1 |
| R1509-1512 | ERDS2TJ103 | 1/4W 10K |
| R1513-1516 | ERDS2TJ104 | 1/4W 100K |
| R1517, 1518 | ERDS2TJ472 | 1/4W 4.7K |
| R1519, 1520 | ERDS2TJ272T | 1/4W 2.7K |
| R1521-1526 | ERDS2TJ563 | 1/4W 56K |
| R1527, 1528 | ERDS2TJ103 | 1/4W 10K |
| R1529, 1530 | ERDS2TJ392T | 1/4W 3.9K |
| R1531, 1532 | ERDS2TJ223 | 1/4W 22K |
| R1533, 1534 | ERDS2TJ472 | 1/4W 4.7K |
| R1535, 1536 | ERDS2TJ223 | 1/4W 22K |
| R1537, 1538 | ERDS2TJ103 | 1/4W 10K |
| R1539 | ERDS2TJ333 | 1/4W 33K |
| R1540 | ERDS2TJ102 | 1/4W 1K |
| R1541, 1542 | ERDS2TJ752T | 1/4W 7.5K |
| R1551, 1552 | ERDS2TJ183T | 1/4W 18K |
| R1553, 1554 | ERDS2TJ103 | 1/4W 10K |
| R1555, 1556 | ERDS2TJ562 | 1/4W 5.6K |
| R1557, 1558 | ERDS2TJ103 | 1/4W 10K |
| R1559, 1560 | ERDS2TJ273 | 1/4W 27K |
| R1561-1564 | ERDS2TJ102 | 1/4W 1K |
| R1565, 1566 | ERDS2TJ123 | 1/4W 12K |
| R1567, 1568 | ERDS2TJ683 | 1/4W 68K |
| | | |
| | | CAPACITORS |

| Ref. No. | Part No. | Values & Remarks |
|---|---|---|
| | | |
| C107, 108 | ECBT1H101KB5 | 50V 100P |
| C109, 110 | ECBT1H102KB5 | 50V 1000P |
| C111, 112 | ECA1EAP330B | 25V 33U |
| C115, 116 | ECFR1E223KR | 25V 0.022U |
| C117, 118 | ECFR1E682KR | 25V 6800P |
| C119, 120 | ECA1HAP010B | 50V 1U |
| C121, 122 | ECBT1E103ZF | 25V 0.01U |
| C200 | ECBT1E223ZF | 25V 0.022U |
| C201 | ECBT1H470J5 | 50V 47P |
| C203, 204 | ECBT1E103ZF | 25V 0.01U |
| C205, 206 | ECBT1H180J5 | 50V 18P |
| C207, 208 | ECBT1H151KB5 | 50V 150P |
| C209-216 | ECBT1H101KB5 | 50V 100P |
| C219, 220 | ECBT1H151KB5 | 50V 150P |
| C221-230 | ECBT1H101KB5 | 50V 100P |
| C231, 232 | ECBT1E103ZF | 25V 0.01U |
| C250 | ECEA1CKA220B | 16V 22U |
| C251, 252 | ECEA1HKA3R3B | 50V 3.3U |
| C253, 254 | ECEA1HKAR47B | 50V 0.47U |
| C255, 256 | ECBT1H180J5 | 50V 18P |
| C258, 259 | ECBT1E223ZF | 25V 0.022U |
| C271, 272 | ECBT1H101KB5 | 50V 100P |
| C273, 274 | ECEA1CKA220B | 16V 22U |
| C297, 298 | ECBT1H151KB5 | 50V 150P |
| C301, 302 | ECA1HAP3R3B | 50V 3.3U |
| C303 | ECBT1H680J5 | 50V 68P |
| C304 | ECQV1H823JZ | 50V 0.082U |
| C305 | ECEA1HKA3R3B | 50V 3.3U |
| C306 | ECBT1H221KB5 | 50V 220P |
| C307 | ECEA1HKA3R3B | 50V 3.3U |
| C309, 310 | ECBT1H820KB5 | 50V 82P |
| C311, 312 | ECA1HAP3R3B | 50V 3.3U |
| C313, 314 | ECBT1E103ZF | 25V 0.01U |
| C395, 396 | ECBT1H120J5 | 50V 12P |
| C398, 399 | ECBT1E103ZF | 25V 0.01U |
| C411, 412 | ECFR1E473KR | 25V 0.047U |
| C413, 414 | ECEA1HKAR22B | 50V 0.22U |
| C415, 416 | ECFR1E682KR | 25V 6800P |
| C417, 418 | ECFR1E272KR | 25V 2700P |
| C419, 420 | ECFR1E333KR | 25V 0.033U |
| C421, 422 | ECEA1HKA3R3B | 50V 3.3U |
| C423, 424 | ECA1HAP100B | 50V 10U |
| C427 | ECEA0JKA470B | 6.3V 47U |
| C432 | ECEA1CKA100B | 16V 10U |
| C433, 434 | ECBT1E103ZF | 25V 0.01U |
| C451, 452 | ECEA1CKA220B | 16V 22U |
| C453, 454 | ECA1HAP010B | 50V 1U |
| C455 | ECEA1CKA220B | 16V 22U |
| C456 | ECEA1CKA100B | 16V 10U |
| C457 | ECEA1CKA220B | 16V 22U |
| C471, 472 | ECA1HAP3R3B | 50V 3.3U |



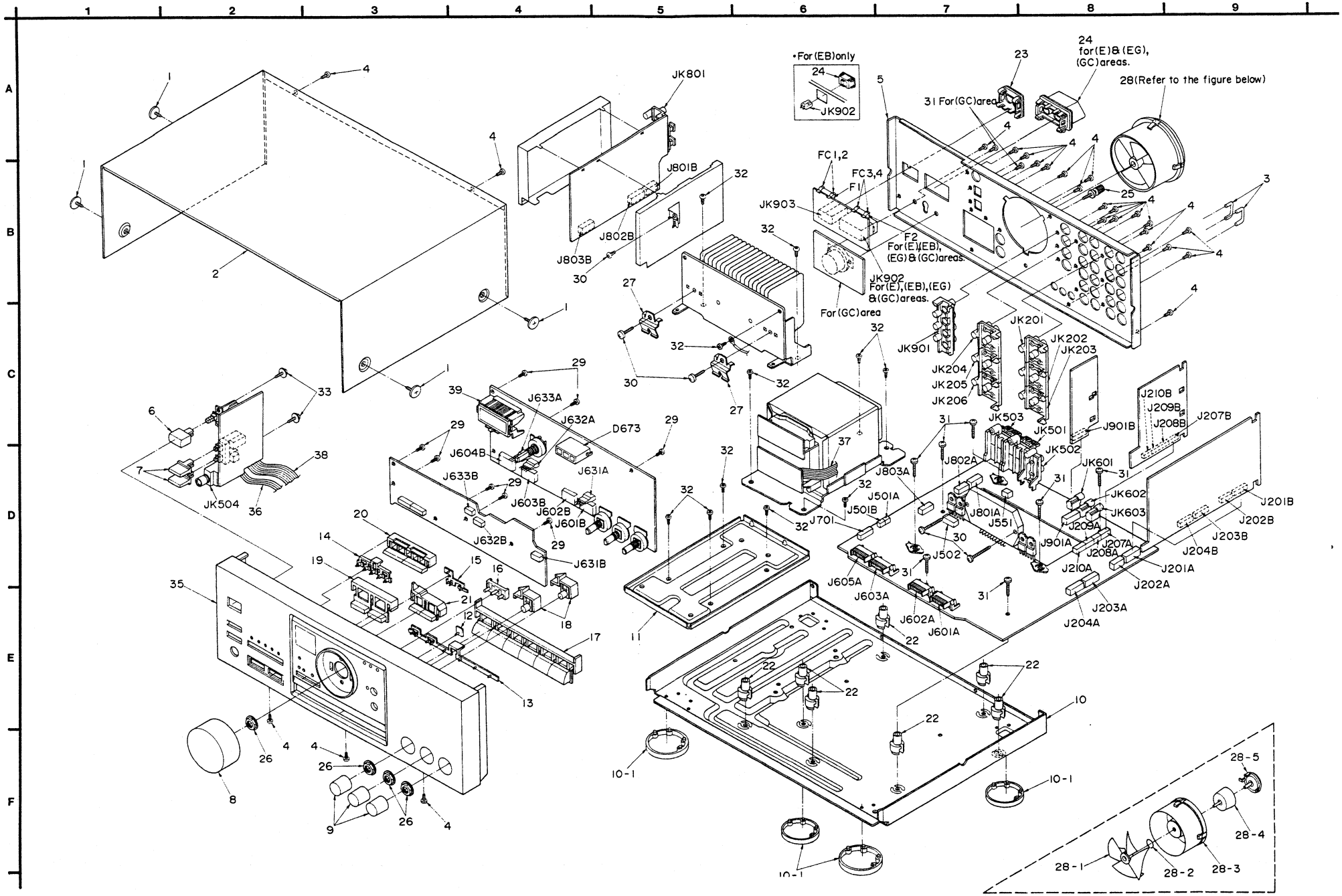


| Ref. No. | Part No. | Values & Remarks |
|---|---|---|
| C473, 474 | ECBT1H101KB5 | 50V 100P |
| C475, 476 | ECBT1H821KB5 | 50V 820P |
| C477, 478 | ECBT1H680J5 | 50V 68P |
| C479, 480 | ECEA1HKA3R3B | 50V 3.3U |
| C483, 484 | ECBT1E103ZF | 25V 0.01U |
| C501, 502 | ECBT1H331KB5 | 50V 330P |
| C503, 504 | ECBT1H151KB5 | 50V 150P |
| C505, 506 | ECA1HAP2R2B | 50V 2.2U |
| C507, 508 | ECBT1H100J5 | 50V 10P |
| C509, 510 | ECKT1H2232F | 50V 0.022U |
| C513 | ECEA1CKA100B | 16V 10U |
| C514 | ECEA0JKA470B | 6.3V 47U |
| C516-518 | ECBT1E103ZF | 25V 0.01U |
| C519 | ECA1HAP330B | 50V 33U |
| C520 | ECA2AAP100B | 100V 10U |
| C521 | ECA1EM101B | 25V 100U |
| C523, 524 | ECA1HAP3R3B | 50V 3.3U |
| C525, 526 | ECBT1H561KB5 | 50V 560P |
| C535, 536 | ECBT1E223ZF | 25V 0.022U |
| C537, 538 | ECBT1H102KB5 | 50V 1000P |
| C539, 540 | ECBT1E223ZF | 25V 0.022U |
| C541-546 | ECBT1H102KB5 | 50V 1000P |
| C597, 598 | ECBT1H102KB5 | 50V 1000P |
| C601 | ECBT1E103ZF | 25V 0.01U |
| C602 | ECEA0JU102 | 6.3V 1000U |
| C603 | ECEA1HKA3R3B | 50V 3.3U |
| C604 | ECEA1VKA100B | 35V 10U |
| C605 | ECBT1E103ZF | 25V 0.01U |
| C606, 607 | ECEA1HKA010B | 50V 1U |
| C608 | ECBT1H101KB5 | 50V 100P |
| C610 | ECEA1HKA010B | 50V 1U |
| C651, 652 | ECBT1H104ZF5 | 50V 0.1U |
| C653, 654 | ECBT1H470J5 | 50V 47P |
| C700 | ECKVNS103ZV | 500V 0.01U ⚠ |
| C701 | ECBT1H102KB5 | 50V 1000P |
| C702 | ECKR1H103ZF5 | 50V 0.01U |
| C703, 704 | ECEA1EKA100B | 25V 10U |
| C705, 706 | ECEA1CKA100B | 16V 10U |
| C707 | ECBT1E103ZF | 25V 0.01U |
| C708 | ECEA1AU221 | 10V 220U |
| C709 | ECEA1HKA2R2B | 50V 2.2U |
| C710 | ECBT1E2232F | 25V 0.022U |
| C711, 712 | ECES56V472NX | 56V 4700U |
| C713 | ECQE2104KF3 | 100V 0.1U |
| C715 | ECEA1VKA100B | 35V 10U |
| C716 | ECBT1H102KB5 | 50V 1000P |
| C721 | ECEA1HKA010B | 50V 1U |
| C731 | ECFR1E104ZF5 | 25V 0.1U |
| C800 | ECBT1E2232F | 25V 0.022U |
| C801 | ECBT1E103ZF | 25V 0.01U |
| C802, 803 | ECEA1CKA100B | 16V 10U |
| C804 | ECBT1H104ZF5 | 50V 0.1U |

| Ref. No. | Part No. | Values & Remarks |
|---|---|---|
| C805 | ECBT1H102KB5 | 50V 1000P |
| C806 | ECFR1E104ZF5 | 25V 0.1U |
| C807 | ECEA1CKA100B | 16V 10U |
| C808 | ECEA1HKA010B | 50V 1U |
| C809 | ECQV1H104JZ3 | 50V 0.1U |
| C810 | ECBT1H220J5 | 50V 22P |
| C811 | ECEA0JKA101B | 6.3V 100U |
| C814 | ECEA0JKA101B | 6.3V 100U |
| C815 | ECEA1CKA100B | 16V 10U |
| C816 | ECBT1H102KB5 | 50V 1000P |
| C818 | ECEA1EKA4R7B | 25V 4.7U |
| C819, 820 | ECEA0JKA101B | 6.3V 100U |
| C821 | ECBT1E103ZF | 25V 0.01U |
| C822 | ECEA1EKA100B | 25V 10U |
| C823 | ECBT1H102KB5 | 50V 1000P |
| C825, 826 | ECEA1CKN100B | 16V 10U |
| C827, 828 | ECBT1C103NS5 | 16V 0.01U |
| C829, 830 | ECBT1H102KB5 | 50V 1000P |
| C831 | ECBT1E103ZF | 25V 0.01U |
| C833 | ECBT1H104ZF5 | 50V 0.1U |
| C834 | ECBT1H102KB5 | 50V 1000P |
| C835 | ECBT1E103ZF | 25V 0.01U |
| C836-838 | ECEA1EKA4R7B | 25V 4.7U |
| C840 | ECBT1H331KB5 | 50V 330P |
| C843 | ECBT1H220J5 | 50V 22P |
| C844 | ECBT1H102KB5 | 50V 1000P |
| C901 | ECBT1E103ZF | 25V 0.01U |
| C902 | ECEA1CKA100B | 16V 10U |
| C903, 904 | ECEA1CKA470B | 16V 47U |
| C1301, 1302 | ECFR1E123KR | 25V 0.012U |
| C1303, 1304 | ECFR1E683KR | 25V 0.068U |
| C1305, 1306 | ECFR1E472KR | 25V 4700P |
| C1307, 1308 | ECFR1E223KR | 25V 0.022U |
| C1309, 1310 | ECA1HAP010B | 50V 1U |
| C1501-1504 | ECEA1HKA2R2B | 50V 2.2U |
| C1505, 1506 | ECFR1E223KR | 25V 0.022U |
| C1507, 1508 | ECBT1H820KB5 | 50V 82P |
| C1509-1512 | ECFR1E104KR | 25V 0.1U |
| C1513, 1514 | ECBT1H331KB5 | 50V 330P |
| C1515, 1516 | ECBT1C103MS5 | 16V 0.01U |
| C1517, 1518 | ECBT1E103ZF | 25V 0.01U |
| C1521A | ECA1HAP2R2B | 50V 2.2U |
| C1521 | ECBT1H102KB5 | 50V 1000P |
| C1522A | ECA1HAP2R2B | 50V 2.2U |
| C1522 | ECBT1H102KB5 | 50V 1000P |
| C1551, 1552 | ECA1HAP3R3B | 50V 3.3U |
| C1553, 1554 | ECBT1H151KB5 | 50V 150P |
| C1555, 1556 | ECEA1HKA2R2B | 50V 2.2U |
| C1557, 1558 | ECQV1H124JZ3 | 50V 0.12U |
| C1559, 1560 | ECBT1E103ZF | 25V 0.01U |

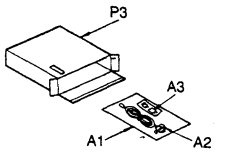
SU-X502

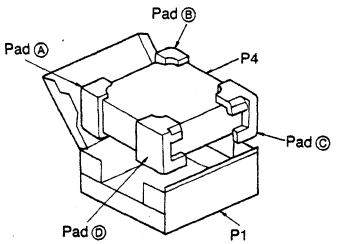
## ■ CABINET PARTS LOCATION



| Ref. No. | Part No. | Part Name & Description | Remarks |
|---|---|---|---|
| | | | |
| | | CABINET PARTS | |
| | | | |
| 1 | RHD30007 | SCREW | |
| 2 | RKMD024A-2K | CABINET | |
| 3 | SJP9205-2Y | SHORTING PIN | |
| 4 | XTBS3+8JFZ1 | SCREW | |
| 5 | RGRD105C-C1 | REAR PANEL | (E) |
| 5 | RGRD105B-B1 | REAR PANEL | (EB) |
| 5 | RGRD105C-D1 | REAR PANEL | (EG) |
| 5 | RGRD105D-1 | REAR PANEL | (GC) |
| 5 | RGRD105E-1 | REAR PANEL | (GN) |
| 6 | RGUD030 | BUTTON, POWER | |
| 7 | RGUD101 | BUTTON, SPEAKER | |
| 8 | RGWD121-K | KNOB, MAIN VOL. | |
| 9 | RGWD125-K | KNOB, BALANCE VOL. | |
| 10 | RFKJUX502E-K | CHASSIS ASS'Y | |
| 10-1 | RKAD011-2 | FOOT | |
| 11 | RMAD138 | PLATE | |
| 12 | RFKNUX502EAK | PANEL LIGHT | |
| 13 | RGLD094-X | PANEL LIGHT | |
| 14 | RGLD096-X | PANEL LIGHT | |
| 15 | RFKNUX502EBK | PANEL LIGHT | |
| 16 | RGLD131-C | PANEL LIGHT | |
| 17 | RGUD470-K1 | BUTTON, SELECT | |
| 18 | RGUD471-K1 | BUTTON, VOL. PRESET | |
| 19 | RGUD472-C | KNOB, S. DYNAMIC | |
| 20 | RGUD473-K1 | BUTTON, S. DYNAMIC UP/DOWN | |
| 21 | RGUD474A-K | BUTTON, TAPE | |
| 22 | SHE187-2 | HOLDER | |
| 23 | SJS9231A | AC INLET COVER | (E, EB, EG, GC) |
| 23 | SJS9234A | AC INLET COVER | (GN) |
| 24 | SJS9333A | AC OUTLET COVER | (E, EG) |
| 24 | SJS9332A | AC OUTLET COVER | (EB) |
| 24 | SJS9233A | AC OUTLET COVER | (GC) |
| 25 | SNE2123 | GND SCREW | |
| 26 | SNE4021-1 | NUT | |
| 27 | SUS894-1 | ANGLE | |
| 28 | SYE1128-2 | FAN ASS'Y | |
| 28-1 | SHE232 | FAN | |
| 28-2 | SUS271 | SPRING | |
| 28-3 | SHE233 | FAN CASE | |
| 28-4 | MDN-4RB4MRC | MOTOR | |
| 29 | XTBS26+8J | SCREW | |
| 30 | XTB3+16JFZ | SCREW | |
| 31 | XTB3+20JFZ | SCREW | |
| 32 | XTB3+8JFZ | SCREW | |
| 33 | XTWS3+8T | SCREW | |
| 34 | XYN3+C6FZ | SCREW | (GC) |
| 35 | RFKGUX502E-K | FRONT PANEL ASS'Y | |
| 36 | RWJ1803200KQ | FLAT CABLE | |
| 37 | RWJ1805110KQ | FLAT CABLE | |
| 38 | RWJ1808150KQ | FLAT CABLE | |
| 39 | RMND102 | FL HOLDER | |
| | | | |
| | | PACKING MATERIAL | |
| | | | |
| P1 | RPGD840 | PACKING CASE | |
| P2 | RPND412 | PAD ASS'Y | |
| P3 | SPSD152 | ACCESSORY BOX | |
| P4 | XZB60X65A01Z | PROTECTION COVER | |
| | | | |
| | | ACCESSORIES | |
| | | | |
| A1 | RQF1096 | INSTRUCTION MANUAL ASS'Y | (E) |
| A1 | RQF1097 | INSTRUCTION MANUAL ASS'Y | (EB) |
| A1 | RQF1098 | INSTRUCTION MANUAL ASS'Y | (EG) |
| A1 | RQF1095 | INSTRUCTION MANUAL ASS'Y | (GN) |
| A1 | RQF1094 | INSTRUCTION MANUAL ASS'Y | (GC) |
| A1-1 | RQAD013 | WARRANTY CARD | (E, EB, EG) |
| A1-1 | SQX7186 | WARRANTY CARD | (GN) |
| A1-2 | RQCB0169 | SERVICENTER LIST | |
| A1-3 | RFKSUX502E-K | INSTRUCTION MANUAL | (E) |
| A1-3 | RQT1000-B | INSTRUCTION MANUAL | (EB, GN) |
| A1-3 | RQT1001-D | INSTRUCTION MANUAL | (EG) |
| A1-3 | RQT0998-G | INSTRUCTION MANUAL | (GC) |
| A1-4 | SPB1061 | POLYETHYLEN COVER | |
| A2 ⚠ | SJA187 | AC CORD | (E, EG) |
| A2 ⚠ | SJA188 | AC CORD | (EB) |
| A2 ⚠ | SJA173 | AC CORD | (GN) |
| A2 ⚠ | RJA0004 | AC CORD | (GC) |
| A3 ⚠ | SJP9215 | AC PLUG UADAPTOR | (GC) |

## ■ PACKAGING




P2: Pad Ⓐ Ⓑ Ⓒ Ⓓ Ass'y; RPN0412



Printed in Japan
F910309500HS/KH